## Occurrence Summaries 01/01/2015 to 31/12/2015 Region(s): All Club:



Christopher Thorpe Executive Manager, Operations The Gliding Federation of Australia Inc.

31-Dec-2015



#### The Gliding Federation of Australia Inc SOAR Accident and Incident Occurrences General Statistics

Date From:	01/01/2015
Date to:	31/12/2015

Damage

	VSA SAGA		GQ	WAG	NSWGA <sup>®</sup>	Total			
Nil	26	8	29	12	15	90			
Write-off	1		1		1	3			
Minor	12	7	12	9	14	54			
Substantial	10	5	4	3	13	35			
Total	49	20	46	24	43	182			
Injury									
	VSA SAGA		GQ	WAG	NSWGA <sup>-</sup>	Total			
Nil	44	20	44	24	39	171			
Fatal	1					1			
Minor	4		2		4	10			
and the second									
Total	49	20	46	24	43	182			

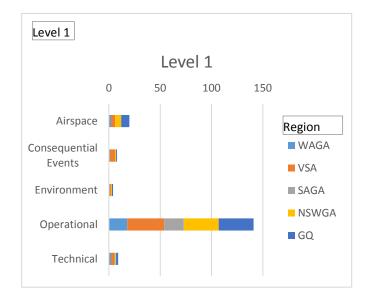
#### Phases

	VSA SA	GA G	Q	WAG N	SWGA 1	Total
Outlanding	3		2		7	12
Ground Ops	6	4	6	2	4	22
Launch	12	3	12	5	4	36
Landing	19	11	14	15	22	81
In-Flight	9	2	10	2	4	27
Thermalling			2		2	4
Type of Flight						
	VSA SA	GA G	Q	WAG N	SWGA 1	Total
Cross-Country	9	1	4	5	7	26
Ground Ops	5	4	5	2	4	20
Local	21	12	20	13	16	82
Training/Coaching	11	2	13	2	9	37
Competition	2		4	1	6	13
AEF	1	1		1	1	4
Total	49	20	46	24	43	182



The Gliding Federation of Australia Inc SOAR Accident and Incident Occurrences Classification Level 1 Date From: 01/01/2015 Date to: 31/12/2015

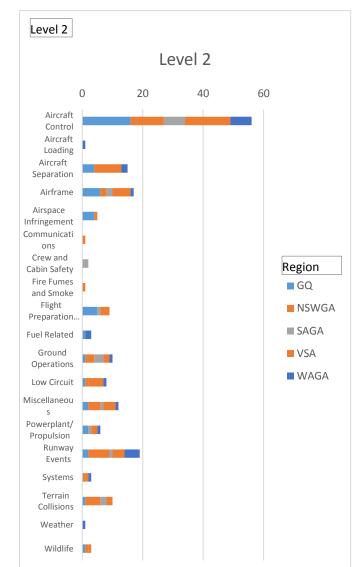
Level 1						
	VAG	VSA	SAGA I	SWG.	GQ	Total
Airspace	2	4		6	8	20
Consequential Events	1	5		1	1	8
Environment	1	1		1	1	4
Operational	18	36	19	34	34	141
Technical	2	3	1	1	2	9
Total	24	49	20	43	46	182





# The Gliding Federation of Australia IncSOAR Accident and Incident OccurrencesClassification Level 2Date From:01/01/2015Date to:31/12/2015

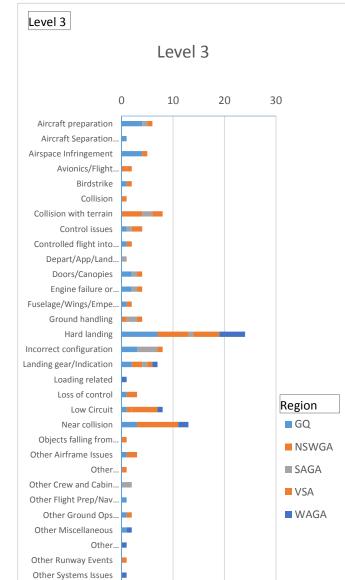
Level 2						
	GQ	NSWGA	SAGA	VSA	WAGA	Total
Aircraft Control	16	11	7	15	7	56
Aircraft Loading					1	1
Aircraft Separation	4	5		4	2	15
Airframe	6	2	2	6	1	17
Airspace Infringement	4	1				5
Communications		1				1
Crew and Cabin Safety			2			2
Fire Fumes and Smoke		1				1
Flight Preparation/Navigation	5		1	3		9
Fuel Related	1				2	3
Ground Operations	1	3	3	2	1	10
Low Circuit	1	1		5	1	8
Miscellaneous	2	4	1	4	1	12
Powerplant/Propulsion	2		1	2	1	6
Runway Events	2	7	1	4	5	19
Systems		1		1	1	3
Terrain Collisions	1	5	2	2		10
Weather					1	1
Wildlife	1	1		1		3
Total	46	43	20	49	24	182



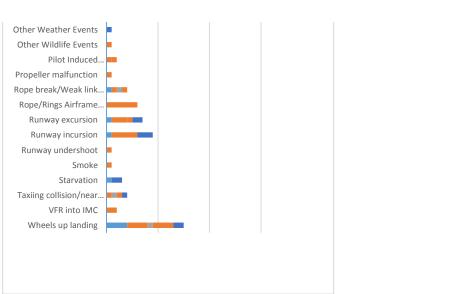


	ng Federation of Australia Inc nt and Incident Occurrences								
<b>Classification Level 3</b>									
Date From:	01/01/2015								
Date to:	31/12/2015								

Level 3							Air
	GQ	NSWGA	SAGA	VSA	WAGA	Total	A
Aircraft preparation	4		1	1		6	Airsp
Aircraft Separation Issues	1					1	
Airspace Infringement	4	1				5	
Avionics/Flight instruments		1		1		2	
Birdstrike	1			1		2	Col
Collision		1	_			1	Cor
Collision with terrain		4	2			8	0
Control issues	1		1	2		4	
Controlled flight into terrain	1	1				2	
Depart/App/Land wrong runway			1			1	Fusel
Doors/Canopies	2		1	1		4	
Engine failure or malfunction	2		1	1		4	Incori
Fuselage/Wings/Empennage	1			1		2	Landir
Ground handling		1	2	1		4	
Hard landing	7	6	1	5	5	24	
Incorrect configuration	3		4	1		8	
Landing gear/Indication	2	2	1	1	1	7	OI
Loading related					1	1	Othe
Loss of control	1			2		3	Othe
Low Circuit	1	1		5	1	8	Othe
Near collision	3	4		4	2	13	C
Objects falling from aircraft				1		1	Oth
Other Airframe Issues	1			2		3	Oth
Other Communications Issues		1				1	Oth



							Others Warthers F.
Other Crew and Cabin Safety Issues			2			2	Other Weather Events
Other Flight Prep/Nav Issues	1					1	Other Wildlife Events
	-					-	Pilot Induced
Other Ground Ops Issues	1	1				2	Propeller malfunction
Other Miscellaneous	1				1	2	Rope break/Weak link
Other Powerplant/Propulsion Issues					1	1	Rope/Rings Airframe
		1				1	Runway excursion
Other Runway Events		T				T	Runway incursion
Other Systems Issues					1	1	Runway undershoot
Other Weather Events					1	1	Smoke
Other Wildlife Events		1				1	Starvation
		-				-	Taxiing collision/near
Pilot Induced Oscillations		1		1		2	VFR into IMC
Propeller malfunction				1		1	Wheels up landing
Rope break/Weak link failure	1	1	1	1		4	
Rope/Rings Airframe Strike		3		3		6	
Runway excursion	1	3		1	2	7	
Runway incursion	1	2		3	3	9	
Runway undershoot		1				1	
Smoke		1				1	
Starvation	1				2	3	





#### Accident and Incident Summaries

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Iniurv	Fatal	Dama	age	Write-off	Pha	se Outlanding		e Outlanding		PIC Age	71	
A/C Model 1			Nimbus 2			A/C Model 2						
Level 1	Operational		Level 2	2 Airc	raft Co	Control Level 3			3	Loss of cor	ntrol	
Date	2-Jan-2015	Region	ion VSA			SOAR Report Nbr				S-0468		

GFA FIELD INVESTIGATION - FACTUAL INFORMATION:

On 2 January 2015, at 1341 Eastern Daylight Savings Time, and while flying in the vicinity of Chesney Vale Victoria, a Schempp-Hirth Flugzeugbau Nimbus 2 glider departed controlled flight during a low-level right-hand turn and impacted the ground with the right wing and nose. The aircraft came to rest inverted and was substantially damaged. The pilot suffered fatal injuries.



The aircraft crashed in a rural paddock on the edge of a lake that was situated adjacent to a farmer's Airstrip. The Australian Transport Safety Bureau was notified shortly after, but declined to investigate. A Gliding Federation of Australia (GFA) Field Investigation was undertaken the following morning to assist the Police. Follow-up visits were conducted on later dates to gather more detailed information including flight data analysis, with ATSB assistance to extract data from a damaged data logger.

FLIGHT:

The recorded flight data shows the pilot launched at 12:05:51. The recorded pressure altitude of 557ft AMSL is in line with the aerodrome elevation of 570ft AMSL and is considered accurate enough for the purpose of analysis. It is unlikely that the pressure altitude would have changed significantly during the course of this flight. The last point recorded was at 13:41:17 at an altitude of 715ft AMSL. The flight data shows that the pilot took three thermals just north of the home airfield to a height of 5,000ft and then travelled North. The pilot then took several more thermals on range of hills just north of a lake. The last useful thermal was to 5200ft. The hills are a well-known thermal source and if conditions are weak it would be a good strategy to look for thermals in this area. The thermalling was done with consistent tight circles and with calculated Indicated Air Speed (IAS) below 50kt much of the time. The calculated IAS and ground speed figures are derived from the differences between successive GPS fixes and cannot be relied on for momentary



Accident and Incident Summaries

airspeeds. However it would appear that the glider was being flown at airspeeds consistent with good practice. The pilot twice attempted to find thermals north of the hills but turned back to the same area of hilly country where he had found thermals previously. On the last part of the flight he failed to find a thermal and was quite low over the hills. The rate of descent since his last thermal was severe and he found himself in a difficult situation but one which most glider pilots experience from time to time. At 13:20 he was at 5206ft; he turned back towards the home airfield at 13:25 at 3461ft QNH, which would give a very marginal possibility of a return to the airfield in still air. However, the descending air became stronger and by 13:35 he was at 1800ft and still 12km from home. The pilot travelled to the shores of the lake at no more than 500ft AGL, where there is a known private landing strip. He made a few searching turns and then straightened, flying towards this landing strip. At the boundary of the landing strip paddock the pilot made a right hand turn that would have required a 360 degree turn to align with the landing strip. However, this turn was not completed before the accident occurred. There is nothing in the data that suggests a reason for this turn. The indicated airspeed readings show values between 41 to 45 knots at this point of the flight. The altitude in the final part of the recorded flight was around 800ft AMSL, or approximately 250 ft AGL. The Pilot Operating Handbook for the Nimbus 2 states that the straight and level stall speed of the glider is about 34 kts at low wing loading, increasing to between 37 to 39 kts with water ballast carried. Stall speed also increases with increasing bank angle. Gusts and turbulence may cause momentary increases in angle of attack, hence gliding training emphasises a safe speed near the ground of 1.5 times stall speed recommended for pilots operating in the circuit or close to the ground. For the Nimbus 2 this is about 50 to 55 kts.



#### AIRCRAFT:

Examination of the occurrence site and wreckage indicated that the glider was in a right-hand turn when it struck the ground in a right-wing-low, very steep nose-down attitude. The aircraft came to rest inverted on a westerly heading. The leading edges of both wings left ground scars and the nose left a shallow indentation in the ground. The fuselage forward of the wing leading edge, which includes the cockpit, was mostly destroyed at impact. The wings remained attached to the fuselage and the tail boom was broken just behind the wings and displaced slightly to the South. The rudder remained intact but the drag chute and container had deployed due to impact loads. There was no evidence of any pre-existing airframe or control surface defect. All flight control surfaces were accounted for at the accident site. While there were multiple overload failures of the flight control system in the fuselage and cockpit areas, control continuity was established. There was little damage to the airbrake arms in the wings, which is indicative of them being in



Accident and Incident Summaries

the closed position prior to impact and that they deployed when control circuit integrity was lost. The flaps were in the landing configuration, but as the flap retention mechanism was destroyed it is unclear whether they were set by the pilot or forced into that position by impact. The undercarriage was down and locked prior to impact. The hand grip from the control column had come off and was in the pilot's left hand postaccident. There was no evidence of water ballast being released when the tanks ruptured on impact, which indicates the pilot had drained the water much earlier in the flight. This is consistent with normal practice when the need to optimise climbing performance is evident.

#### **HUMAN FACTORS:**

During each flight, a pilot makes many decisions, sometimes under hazardous conditions. To fly safely, the pilot needs to assess the degree of risk and determine the best course of action to mitigate risk. However, assessing risk in single soaring pilot operations is not as simple as it sounds as the pilot acts as his or her own quality controller in making decisions. Most pilots are goal oriented and when undertaking a flight, there is a tendency to stretch their personal limitations to achieve their goal. For example, a pilot on a marginal final glide to his home airfield may push on in the hope that conditions will improve despite the dire consequences if conditions do not improve (commonly referred to as 'get-home-itis'). Pilots may be strongly motivated to work weak lift at low altitudes to attempt to climb to final glide altitude and avoid landing. While the pilot was said to be careful and risk averse, it is clear from the flight log that the pilot was circling at a very low height in an effort to remain airborne. If this was his usual personal minima, it was high risk. Stress also needs managing. Despite what people may think, everyone is stressed to some degree almost all of the time. A certain amount of stress is good, since it keeps a person alert and prevents complacency. However, the effects of stress are cumulative and, if the pilot does not cope with them in an appropriate way, they can eventually add up to an intolerable burden. Performance generally increases with the onset of stress, peaks, and then begins to fall off rapidly as stress levels exceed a person's ability to cope. The ability to make effective decisions and maintain situational awareness during flight can be impaired by stress. In the case of this flight, the cross-country task, flying in weak conditions, and flying close to the ground are all stressors that could have led to impaired decision making. Optimism bias may have been a factor in his decision to attempt thermalling turns at low altitude. Thermalling turns can be safely conducted at high altitudes at high angles of attack, very close to the stall speed, when the thermals are well-formed and smoother. Very close to the ground, thermals are usually more irregular and gusts, more difficult to work, and therefore require a higher stall margin. This is further compounded by reduced control responsiveness when flying very close to the stall. Greater control deflections are required to achieve a desired effect, with slower aerodynamic response. The possibility of dehydration was also evaluated but analysis indicates this was unlikely. The pilot had only been airborne for 1½ hours and the medical examiner noted the pilot had been well hydrated. The pilot also carried at least 3 litres of drinking water on his flight. The flight log indicates the pilot was intending to land on the farm airstrip, as he had done on two prior occasions. However, just as the aircraft came within a few hundred metres of the airstrip boundary fence and at a height of only 300 feet AGL, the pilot commenced a right-hand turn. It is not clear why the pilot made this turn when the aircraft was well-positioned to land. As mentioned earlier, the hand grip from the control column was found in the pilot's left hand, which evidences he was flying with his non-preferred hand. This is unusual, not only because the pilot was right-handed, but also because glider pilots fly with the right hand so they can use their left hand to manipulate the flaps and airbrakes for landing. By convention, the flaps and airbrakes are located on the left-hand side of the cockpit. It is possible the pilot was flying left-handed because he changed hands to lower the undercarriage, the lever for which is on the right-hand side of the cockpit. If this was the case, then the pilot had not properly configured the aircraft earlier when approaching the airstrip for landing, which is indicative of poor workload management. The act of lowering the undercarriage during a turn, whilst operating the control column with his non-preferred hand, could also explain why the aircraft departed from controlled flight and impacted the ground. The ergonomics of this control activation sequence are relevant to possible contribution to low level loss of control leading to a collision with terrain. To lower the undercarriage, the pilot must use his right hand to disengage the undercarriage lever from the 'UP' locking recess and push it forward into the 'DOWN' locking recess. The act of pushing forward with the right hand can lead to the pilot pulling back with the left hand. If the left hand is



Accident and Incident Summaries

holding the control column, such action would result in the aircraft nose rising, causing a loss of airspeed and increased angle of attack. If this occurred while the glider was in a slow, high angle of attack turn, it is likely the glider would stall; the consequences of which would be for the right-wing and nose to drop towards the ground as occurred in this instance. If the undercarriage was lowered during this final turn, it could also explain why the pilot discontinued his approach to land, after a late discovery that the glider was not in a proper landing configuration. Another possible reason why the pilot may have discontinued his approach to land was due to visual illusions of too much height. The private airstrip on which the pilot appeared to have been landing was narrower than the Benalla Aerodrome to which the pilot was accustomed. A narrow runway can create the illusion that the aircraft is at a higher altitude than it actually is, leading the pilot to believe he may overshoot. The pilot who does not recognise this illusion may then be tempted to fly in a manner to lose height (such as completing a 360 degree turn onto final approach).

#### **ACTIVE ERRORS and FAILED DEFENCES:**

From an aviation operations and safety management perspective, accidents may be analysed in terms of active errors (unsafe acts) and latent (systems, organisational) conditions. In this case there appears to be a number of active errors and failed defences that have combined in the accident causation chain, with fatal result. These include:

#### Active errors:

- Failure to break-off the flight and commit to a landing at a safe height;
- Not configuring the aircraft for landing at an appropriate time and safe altitude prior to final approach; and
- Attempting to climb away from too low a height above ground in the prevailing conditions on that day.

#### Failed Defences:

- Pilot's personal minima were too fine;
- Non-use of pre-landing checklist; and
- Non-adherence to standard operating procedures.

The pilot's proficiency and/or complacency or overconfidence may have led to personal minimums at the riskier end of the spectrum.

#### CONCLUSIONS:

- 1. The command pilot was appropriately qualified for the flight.
- 2. The aircraft had a valid Maintenance Release and had been maintained in accordance with relevant requirements.
- 3. The aircraft appeared capable of normal operation up to the moment of impact.
- 4. The pilot had an undiagnosed heart condition but it is not clear this was a contributing factor. He appeared to be fit for flight prior to launching on the accident flight.
- 5. Weather conditions were generally favourable and are not considered to be a factor, although increased thermal turbulence could have been expected close to the ground.
- 6. For reasons that could not be definitively determined, a landing was not made even though a safe landing was possible.
- 7. During a right-hand turn the glider inadvertently stalled and departed controlled flight at a height too low for the pilot to recover before ground impact.
- The aircraft most likely departed controlled flight when the pilot changed hands on the control column to lower the undercarriage, with the glider being flown very close to the stall whilst in turning flight
- 9. The reason for the pilot making the final right-hand turn could not be unambiguously determined.

Date	3-Jan-2015	Region	SAGA		SOAR Repo	ort Nbr	S-0526
Level 1	Operational	I	_evel 2	Ground Ope	erations	Level 3	Ground handling



#### Accident and Incident Summaries

A/C Mode	1	AS	ASK-21Mi A/C Model 2						
Injury	Nil	Damage	Minor	Phase	hase Ground Ops		PIC Age	54	
While moving the glider from the hangar, the port side leading edge of the horizontal stabiliser grazed a									
hanger sup	oport beam cau	sing minor scra	tching to the	gelcoat on	the port side le	eadin	g edge. The	incident	
occurred due to inattention to the task. The Club has since fitted foam to all hanger support beams in order									
to minimise the risk of future damage.									

Date	4-Jan-2015	Region	gion GQ SOAR Report Nbr		Region GQ SOAR Report Nbr		SOAR Report Nbr			S-	0472
Level 1	Operational		Level 2	Airc	raft Co	ontro		Level	3	Incorrect of	configuration
A/C Mod	el 1		TST-1	0M		A/C Model 2					
Injury	Nil	Dama	age	Nil	Pha	se	Launc	h		PIC Age	62
The pilot experienced difficulty starting the motor of this self-launching sailplane and, believing the engine											
had 'flooded', decided to vacate the cockpit and allow some time for the excess fuel evaporate. After 15											
minutes	the pilot again b	barded th	e sailplar	e and reco	ommei	nced	the eng	gine-sta	art pr	ocedures. T	he motor
started n	ormally and the	pilot prod	ceeded w	ith the lau	nch. D	uring	the gro	ound ro	oll, an	d again afte	er lift-off, the
pilot visu	ally checked the	airbrake	lever was	in the locl	ked po	sitior	n. Shor	tly afte	r lift-o	off the pilot	experienced
difficulty	maintaining a no	ormal clin	nb rate. H	aving prev	viously	satis	fied hir	nself th	nat th	e airbrakes	were not
deployed	d, and with the e	ngine dev	eloping f	ull power, t	the pil	ot co	mmen	ced a se	eries	of shallow t	urns while
maintain	ing a safe speed	to positic	on himself	<sup>-</sup> back on tl	he airs	strip. '	When s	safely p	ositio	oned on a fi	nal approach
the pilot	shut down the e	ngine and	d conduct	ed a landir	ng witł	n a sli	ght gro	und loo	op. W	/itnesses ad	vised the
pilot that	t his airbrakes ha	d deploy	ed during	take-off a	nd ren	naine	d deplo	byed du	iring	the modifie	d circuit. It

pilot that his airbrakes had deployed during take-off and remained deployed during the modified circuit. It would appear the pilot did not lock the airbrakes, possibly due to the distraction of starting the engine. The pilot noted that in future he will confirm the airbrakes are closed and locked by 'feel' and also by visually checking along the wings. The pilot further noted that if the engine is giving full power but the aircraft is not climbing, powered sailplane pilots should automatically check that the airbrakes are locked by manipulating the airbrake lever.

Date	5-Jan-2015	Region WAGA			SOA	AR Repo	ort Nbr		S-	0485	
Level 1	Operational		Level 2	Fu	el Rela	ated		Level	3	Starvation	
A/C Mod	el 1	Grob G 109B				A/C	Model	2			
Injury				Nil Phase Launch				PIC Age	67		
An experienced Instructor was providing powered sailplane endorsement training to a solo pilot. The											
Instructo	Instructor was using his own engine starting sequence. The pilot under training taxied the aircraft and the										
Instructo	r completed the	pre take	off chec	ks while the	e aircra	aft w	as back	trackin	g. Du	ring this tim	e the pilots
became of	distracted by a w	asp flyin	g in the c	ockpit, and	the In	struc	tor om	itted to	o turn	the fuel on	. The
Instructo	r took over cont	rol for the	e take of	f due to a v	ariable	e cros	swind	and be	cause	the conditi	ons were
hot. Duri	ng the transitior	into the	climb th	e engine fal	tered,	so tł	ne Instr	uctor lo	owere	ed nose and	landed
ahead wi	ahead without further incident. Both pilots immediately identified the engine failure cause. This incident										
highlight	s the problems c	of being d	istracted	during che	cks an	d wh	y pilots	should	d adh	ere to publi	shed
checklists	checklists and not reinvent their own.										

Date	7-Jan-2015	Region	egion NSWGA			SOA	R Repo	ort Nbr		S-	0484
Level 1	Operational		Level 2	Com	atior	IS	Level	3	Other Com	nmunications	
								Issues			
A/C Mod	el 1	Astir CS				A/C	Model	2			
Injury	Nil	Damage Nil F				ise	Outla	nding		PIC Age	68
This early	This early cross country pilot was attempting a 5 hour local flight from Cootamundra airfield. During the										



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course of the flight the pilot noticed a squall developing under cumulus congestus some 10km east of the airfield. The pilot remained clear of the approaching squall but after about 4 hours the conditions began to deteriorate and the squall had developed into thunderstorms. When the squall reached the airfield the pilot radioed the Duty Instructor to advise his position and that return to the airfield was not possible. The pilot was unable to remain airborne and safely conducted an outlanding in a stubble paddock near a farmhouse some 15 kms from the airfield. After landing the pilot attempted to contact the Club by radio to no avail. As this was a local flight the pilot was not carrying his mobile phone, so he walked to the farm house to get assistance. Unfortunately the farmhouse was unoccupied, although it was evident that people were living there. Attempts to find another farmhouse proved fruitless.



Just before last light the Duty Instructor, concerned that the pilot had not reported in and was overdue, contacted emergency services and SAR action was undertaken. A search was initiated and a Search and Rescue Helicopter from Orange was deployed. The helicopter located the glider at around 8.15pm and shortly after the police found the pilot walking along a road and returned him to the airfield. Advice on Search and Rescue procedures is in the GFA Airways and Radio Procedures for Glider Pilots manual at Section 5. When an aircraft is known to be operating in other than normal circumstances and there is doubt concerning the aircraft's safety, an emergency phase should be declared. If a pilot has difficulty letting their club or nominated person know of their fate and it is getting close to last light, use the VHF radio to make contact with other aircraft in the area on all appropriate frequencies, including the distress frequency: 121.5 MHz. Search aircraft and some high-flying jets monitor this frequency.

Date	7-Jan-2015	Regior	1	NSWGA		SOA	AR Repo	ort Nbr		S-	0471
Level 1	Operational	ational Level 2 Runway Events Level			3	Runway in	cursion				
A/C Mod	el 1		ASW 27 B A/C Model 2								
Injury	Nil	Dama	age						PIC Age	67	
across th reduction vehicle d Drivers sl	e glider was on fi e runway aiming n in airspeed. The rivers must alwa hould monitor th enhance visibility	point. Th glider la ys mainta e air ban	ne pilot Inded s ain a go	closed airbra somewhat hea ood look out f	akes a avily b or aire	nd pu out w craft	ulled up as unda before	to ove amaged enterir	erfly tl 1. Wh ng or c	he vehicle re en operatin crossing a ru	esulting in a g airside, unway.



Date	8-Jan-2015	Regior	1 I	NSWGA		SOA	AR Repo	ort Nbr		S-	0478
Level 1	Operational	Level 2 Aircraft Control				Level	3	Hard landi	ng		
A/C Model 1 ASH 25 M A/C Model 2											
Injury	Nil	Dama	age S				Landi	ng		PIC Age	76
Upon return from a 5½ hours solo cross-country flight, this experienced pilot joined circuit and configured											
the aircra	aft for landing. Ci	rcuit was	s flown a	t 60 knots, v	which	wasa	approp	riate fo	or the	conditions,	but the
aircraft w	vas allowed to ac	celerate	to 80 kn	ots during f	inal ap	oproa	ich. The	e aircra	ft tou	ched down	at 70 knots
resulting	in the aircraft ba	llooning	Misuse	of the cont	rols le	d to t	he airc	raft tou	uching	g down heav	ily and
resulted	in severe damage	e to the r	nain uno	lercarriage a	and ta	il wh	eel. Pot	ential	contri	ibuting facto	ors include
fatigue a	fatigue and age-related cognitive decline. The pilot has elected to curtail command flying and will fly with a										
safety pil	ot in future.										

Date	9-Jan-2015	Regior	۱	NSWGA		SOA	R Repo	ort Nbr		S-	0475
Level 1	Operational		Level	2 Airc	raft Co	ontro		Level	3	Pilot Induc	ced
										Oscillation	S
A/C Mod	el 1	e	irob G 1	103 Twin II		A/C	Model	2			
Injury	Nil	Dama	age	Minor				PIC Age	17		
mishandl number of surround forward. nose pito establish (the faste	nours pilot comm ed the controls of f times before c ing structure. It In gliders with a hing up rapidly a ing the glider on er and cleaner th im to touch-dov	during re- oming to is not und nose-wh ind the cy the appr e aircraft	covery f rest. Th commo eel, this ycle is re oach at c, the gr	from the bou he aircraft su n for pilots to s usually resu epeated unti t the correct a reater the pit	nce re ffered react Its in t the a airspee ch sen	sultin a de to th che gl ircraf ed fo sitivi	ng in th flated in ne glide lider str ft come r the co ty). Ma	e glide nose wl r boun riking th s to res onditior intain t	r rebo heel a cing b ne no st. PIC ns usi he ap	bunding into and damage by pitching t se-wheel re Ds can be av ng half or m oproach spe	o the air a to the he nose sulting in the roided by tore airbrake

Date	13-Jan-2015	Region		NSWGA		SOA	R Repo	ort Nbr		S-	0483
Level 1	Operational	Operational		ŀ	Airfrar	ne		Level	3	Landing	
								gear/Indication			
A/C Mod	el 1	IMC A-9A Callair		Callair		A/C	Model	2			
Injury	Nil	Damage Minor Phase Landing			PIC Age	23					
While tax	kying off the run	way after	a normal	landing, th	ne tov	/ plan	ie's rigł	nt unde	rcarr	iage oleo sti	rut sheared
and the a	aircraft came to	rest with	a 25 degr	ee list to st	arboa	rd. Tł	ne right	t wing a	and p	ropeller ren	nained clear
of the gro	of the ground. The pilot had no indication or prior warning of the collapse, which appears to have occurred										
due to fa	due to fatigue failure at the strut attachment point.										





Date	16-Jan-2015	Region	1	WAGA		SOA	R Repo	ort Nbr		S-	0486
Level 1	Operational		Level 2	Airc	raft Lo	adin	g	Level 3		Loading re	lated
A/C Mod	el 1		DG-10	00S		A/C	Model	2			
Injury	Nil	Dama	age	Minor	Pha	se	Landiı	ng		PIC Age	64
Just after touch down the pilot flying applied the wheel brake resulting in the aircraft nosing over and the											
forward f	forward fuselage contacted the ground and suffering minor damage. The pilot could not raise the nose and										
the aircra	aft came to rest	with the t	ail in the	air. Tail ba	llast w	as no	ot fitted	l to com	ben	sate for the	heavier
pilots as	the aircraft was	awaiting	a replace	ment door	for the	e trin	n ballas	t compa	rtm	ent located	in the fin
that was	lost on an earlie	r flight. It	is impor	ant to not	e that a	a for	ward Co	G locatio	n in	creases the	need for
greater b	ack elevator pre	ssure, an	d that to	o forward a	a CG co	ould r	esult ir	the elev	/atc	or no longer	being able
	e any increase in							-	-		
location l	because the stall	ing angle	of attack	is reached	l at a h	ighe	r speed	due to i	ncre	eased wing l	oading.
Flying a g	Flying a glider outside its forward CG limit may also make it difficult to flare the glider on the landing and,										
more ser	iously, it could a	lso result	in the m	aximum ca	lculate	ed flig	ght load	ls on the	tail	plane being	exceeded.
Pilots mu	Pilots must always ensure weight and balance calculations are rigorously completed before each flight.										

Date	16-Jan-2015	Region	n NSWGA				SOA	AR Repo	ort Nbr		S-	0482	
Level 1	Operational		Leve	el 2	Run	way E	vent	S	Level	3	Runway undershoot		
A/C Mod	el 1	SZD-51-1 Junior					A/C	: Model	2				
Injury	Nil	Damage Nil Phase Landing PIC Age 57							57				
Returnin	Returning from a 1½ hour local soaring flight, this inexperienced pilot used airbrakes to lose height in the												



Accident and Incident Summaries

circuit. The airbrakes were closed just prior to joining the base leg but the aircraft continued to experience a high rate of descent. During the base leg and at a very low height, the pilot elected to undertake a dangerous low-level manoeuvre to land within the airfield boundary and missed colliding with a hanger and other infrastructure by metres. The starboard wing impacted the ground as the pilot manoeuvred to avoid a fence, and then the main wheel contacted the ground and the aircraft proceeded to ground loop to the right 135 degrees.





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The aircraft was undamaged and the pilot uninjured. Review of the flight logger trace shows the pilot could have safely landed straight-ahead into a paddock during the base leg. While the pilot had been trained to handle in-flight emergencies and outlanding, it is likely he was fixated on landing on the airfield and that his situational awareness was degraded through cognitive tunnelling. The pilot's CFI noted that the pilot had learned to fly on a course and may not have had adequate exposure to extreme conditions that he experienced on this flight. This incident highlights the importance ensuring students have the skills, judgement and confidence to handle the more extreme conditions, and that they have been exposed to emergency situations before solo.

Date	16	Jan-2015	Regior	า		GQ		SOA	AR Repo	ort Nbr		S-	0480
Level 1	Operational		Level 2 Aircraf			raft Co	ontro	Ĩ	Level	3	Control iss	ues	
A/C Mod	A/C Model 1		Discus 2B			A/C	Model	2					
Injury	, ,		Dam	age		Nil	Pha	ise	Landi	ng		PIC Age	73
runway. climbing	The in li	rotow launcl pilot success ft post releas e importance	fully cou se, the pi	ntere lot wa	ed the as ab	e swing to le to dislo	port v dge th	vith o e tha	pposite tch by	e rudde sideslip	er and oping	l became air the glider. T	borne. After his incident

Date	16-Jan-2015	Region	1	VSA		SOA	AR Repo	ort Nbr		S-	0519
Level 1	Operational		Level 2		Airframe Level 3 Other Airframe I				rame Issues		
A/C Mod	el 1		Nimbu	ıs 3T		A/C	Model	2			
Injury Nil Damage Nil Phase In-Flight PIC Age 39								39			
The pilot	The pilot fitted Go Pro cameras to the tailplane and starboard wingtip of the aircraft without formal										
-	ing approval or T		-				-				
	the installation a	-	-						•		
	pilot concerned was counselled by his CFI. NOTE: In June 2012 an ASK21 experienced elevator flutter caused										
by distur	by disturbed airflow coming from a wing-mounted GoPro camera.										





Date	16-Jan-2015	5-Jan-2015 Region VSA SOAR Report N								-0520
Level 1	Operational		Level 2		Flight		Level		VFR into I	MC
				Preparat	tion/N	avigation				
A/C Mod	el 1		Nimbu	s 3T		A/C Mod	el 2		•	
Injury	Nil	Dama	ge	Nil	Pha				PIC Age	39
During a	cross-country so	aring fligh	t the pilo	ot flew thro	ough c	loud and p	osted vi	deo c	of the flight	on Facebook.
The pilot	concerned was	counselled	d by his C	FI. While it	t is ten	npting to f	y close t	to clo	ud when co	onditions
	ots need to com									n ENR 1.2
Section 2	(i.e. 1500M hor	izontal an	d 1000ft	vertical wh	nen ab	ove 3,000	t AMSL	or 1,0	000ft AGL).	
										Section 201
					1					
				-						
1.54				19						A
				1						
	1		1				1			
	(2)		1							No. of Concession, Name
	A COM	-	1					1		
			. 1		) = -			1		
				1						
					-			10		



Date	17-Jan-2015	Region		VSA		SOA	R Repo	ort Nbr		S-	0477
Level 1	Operational		Level 2	Airc	raft Co	ontro	<u> </u>	Level	3	Hard landi	ng
A/C Mod	el 1		Twin A	stir		A/C	Model	2			
Injury	Nil	Dama	age	Minor Phase Landing PI			PIC Age	71			
condition speed. Th forward a resulting stick forv instructo failed to failing to possible become manoeuv	aft was establish is. The pilot unde ne aircraft bound and flew the airc in the port unde vard and kept the r was caught by take-over in time respond at all (e within their level too late' - before yres close to the becoming 'targe	er check f ed back i raft back rcarriage e tail high surprise a e'. These a .g. not ro of skill th e respond ground. R	ailed to p nto the ai onto the door digg in the ai and did no accidents unding of he instruc- ling to a s counding	roperly roo ir, followin ground. Th ging into th r (and the ot take-ove usually inv ut). Given t tor should ituation th out too lat	und ou g which ne airco nose c er. The volve t that th never nat is g re is us	ut and ch the raft in und. close t mos che tr ne ove r wait oing	d flew t e pilot u mpacte The pilo to the g t comm ainee m erall ide c until th awry. T	he airc under c d heav ot unde ground) non inst espond ea is to he last chis is p	raft o heck ily, co r che duri tructi ling ir let th mom articu	nto the gro pushed the ompressing ock continue ng the landi ng accident n an unfores he trainee do ent - which ularly true o	und at stick the tyre and d to hold the ng roll. The is 'instructor een way or o as much as can rapidly f any

Date	24-Jan-2015	Region		GQ		SOA	AR Repo	ort Nbr		S-	0502
Level 1	Operational		Level 2	Airc	raft C	ontro	rol Level 3		3	Wheels up	landing
A/C Mod	el 1	ASW 20BL				A/C	Mode	2			
Injury	Nil	Dama	age	Nil	Pha	ase Landing				PIC Age	58
flying cro inspectio Landing	erienced pilot ad oss-country with n to confirm the Advice' confirms ould verify the u	the whee undercar that the p	l down, t riage wa pre-landi	he pilot the s in the do ng checklis	en reti wn po t is a 'e	racte sitior check	d it dur n was n c' and n	ing the ot mad ot an 'a	pre-l e. OS action	anding cheo B 01/14 'Cir I' list. The ur	ck. A visual cuit &

Date	25-Jan-2015	Region		VSA		SOA	R Repo	ort Nbr		S-	0488
Level 1	Operational		Level 2	Terra	in Col	llisior	IS	Level	3	Collision w	ith terrain
A/C Mod	el 1		Ventus	s 2ct		A/C	Model	2			
Injury	Minor	Dama	ge Su	ubstantial	Pha	ise	Outla	nding		PIC Age	61
	ing cross-country		-	-							
pilot flew towards an area with suitable landing options and dumped the water ballast. After a couple of										-	
attempts to climb away it became obvious to the pilot that an outlanding was inevitable and the flight was									e flight was		
broken off at a safe height. The pilot selected an outlanding paddock from some distance away but did not									out did not		
conduct a precautionary inspection to assess its suitability. With the selected outlanding paddock to his left,									ck to his left,		
the pilot	joined downwind	d almost a	beam hi	s aiming po	oint w	hile iı	n a righ	t-hand	turn.	His ability t	o monitor
angular v	ariations to his a	iming poi	nt from t	his point o	nward	ds wa	s signif	icantly	impa	ired. The air	craft flew
through	an area of reduce	ed sink, so	the pilo	t raised the	e engii	ne to	self-re	trieve.	Howe	ever, the pilo	ot decided
not to at	tempt to start th	e engine v	vhen the	sink rate i	ncrea	sed. 1	he pilc	ot then	comp	leted a 270	degree
right-han	d turn followed l	oy a 90 de	gree left	-hand turn	to ali	gn wi	ith the	final ap	proa	ch into the I	North. The
final app	roach was made	in a high o	drag conf	figuration;	engin	e dep	loyed,	landing	g flap	set and the	
undercar	riage lowered. T	ne aircraft	touched	d down just	t insid	e the	bound	ary fen	ice an	d the pilot v	was
surprised	by the steepnes	s of the sl	ope. The	pilot did n	ot ap	ply bi	aking a	and as t	the gl	ider crested	the slope
the pilot	noticed it was he	ading for	a fenced	l area arou	nd a s	hed.	Unable	to sto	p, the	glider's left	wing



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The aircraft was substantially damaged and the pilot suffered minor injury (the fencing wire coming very close to his body). This accident highlights the importance of good workload management and for pilots to focus on the right things at the right time. When flying cross-country it is important that pilots plan and think ahead so that they are always in a position to make a safe landing. At lower levels a pilot's priority will change from searching for lift to finding a suitable area in which to land. This requires good flight management and discipline. When landing in a strange paddock the pilot must ensure a proper survey is undertaken of the landing area so as to identify all hazards and ensure a safe landing can be accomplished. Starting the engine in the circuit is fraught with danger and should not be attempted. Furthermore, landing with the motor extended but not operating often results in a steep reduction in performance, which can be comparable to flying with the airbrakes extended. High workload situations during the landing phase often lead to poorly executed landings, sometimes with serious outcomes. Well-developed and fundamentally sound landing procedures and techniques will safeguard against these outcomes.

Date	26-Jan-2015	Regior	1 I	VSA		SOA	AR Repo	ort Nbr		S-0495	
Level 1	Operational	onal Level 2 Aircraft Control					Level	3	Loss of co	ntrol	
A/C Mod	el 1		AS-ŀ	13		A/C	Model	2			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						Outla	nding		PIC Age	17	
downwin circuit. A outlandir	dertaking a local d. Returning to t t low altitude the ng rated, landed	the airfiel e pilot ele downwin	d the pil ected to d in a pa	ot encounte ook for a pa ddock just (	ered a addoc clearir	stror k in tl ng a p	ng heac he vicir oower li	lwind a nity. The ine. Aft	nd wa e pilo er the	as unable to t, who was e aircraft to	o reach the not uched down
the pilot allowed a wing to drop and the aircraft ground looped before coming to rest. The aircraft suffered minor damage to the skid skirting and a rock puncture in the outer part of the wing. This incident highlights the importance ensuring students have the skills, judgement and confidence to properly manage their flights and deal with adverse conditions prior to going solo. The pilot's CFI noted that when conducting pre-flight											



Accident and Incident Summaries

briefings for early solo pilots, ensure they have clearly defined flight objectives and boundaries, and that major areas of concern are clearly articulated, i.e. flying too far downwind, airspace boundaries etc.

Date	26-Jan-2015	Regior	۱	VSA		SOAR Report Nbr			S-0498	
Level 1	Consequential	Events	Level 2			cuit	Level	3	Low Circuit	
A/C Mod	el 1	ASW 28-18		28-18	A/C Mode		el 2			
Injury	Nil	Dam	age	Nil	Pha	ase Land	ing		PIC Age	48
of the Lo over ano	conducted a low w Level Finish Pr ther glider await perations Panel.	ocedures	describ	ed in MOSP	2, pai	ragraph 10.	8.3. The	land	ing glider pa	assed directly

Date	31-Jan-2015	Regior	1 I	GQ		SOA	R Repo	ort Nbr		S-0504	
Level 1	Operational		Level 2	Run	iway E	vents	5	Level	3	Runway ex	cursion
A/C Mod	el 1					A/C	Model	2			
Injury	Nil	Dama	age	Nil	Pha	ise	Landi	ng		PIC Age	62
The pilot was flying on a windy day in an aircraft that did not have airbrakes but used fla							d flap for gli	de-path			
control. While on final approach the pilot extended the flaps 35 degrees and established the glider on the								ler on the			
glideslope. The aircraft then flew through heavy sink and began to undershoot the aiming point. The pilot								The pilot			
raised th	e flaps to neutra	l and low	ered the	nose to inc	rease	the a	irspeed	d. Witn	esses	observed th	ne aircraft
pass low	over the bounda	ry fence	and touc	hdown at s	low sp	beed.	The air	craft la	anded	in long gras	ss and as the
left wing	dropped the glic	ler turne	d through	190 degree	es. No	dama	ige or i	njury re	esulte	d. The pilot	had
undertaken most of his recent flights in gliders with conventional flaps and airbrakes, and may have been								ave been			
out of pr	actice in the acci	dent airc	raft. The	CFI observe	ed tha	t the	pilot m	ay not	have	flown suffic	iently in
adverse conditions for some time and was caught out by the meteorological conditions on the day.							ay.				

Date	1-Feb-2015	Region		GQ		SOA	AR Repo	ort Nbr		S-	0491
Level 1	Operational		Level 2	Airc	raft C	ontro		Level	3	Hard landi	ng
A/C Mod	el 1	LS 7				A/C Model 2					
Injury	Nil	Dama	ige	Nil	Pha	se	Landi	ng		PIC Age	67
	ienced and curre d the flare and t			-	first fl	ight i	n a nev	v type.	Durin	g landing th	e pilot

Date	2-Feb-2015	Regior	1 I	NSWGA			AR Repo	ort Nbr		S-0501	
Level 1	Operational	tional Level 2 Aircraft Control Level 3				3	Hard landi	ng			
A/C Mod	el 1		ASk	-21		A/C	Model	2			
Injury	Nil	Dama	age				hase Landing			PIC Age	73
had picke was flow as the tra the grou	g from a local tra ed-up to 20 knot n appropriate to inee rounded ou nd heavily while to the left wingti	s and sug the cond ut, the gli yawing to	gested a litions an der flew o the rig	crosswind nd a crabbe into a wind nt. Neither o	landin d appr shado occupa	g be oach ow ar ant w	conduc was co ea caus as injur	ted on nducte sed by red but	anoth ed due the ha the a	ner runway. e to the cros angers and c ircraft suffe	A circuit swind. Just dropped to ered minor
pilots sho	pilots should take into account the effect of curlover or wind shadow when setting their aiming point.										



Date	2-Feb-2015 Region			VSA		SOA	R Repo	ort Nbr		S-0509	
Level 1	Consequential	Events	Level 2	Lo	ow Ciro	cuit		Level	3	Low Circui	t
A/C Mod	el 1		DG-300	Elan		A/C	Model	2			
Injury	Nil	Dama	age	Nil	Pha	se	Landi	ng		PIC Age	54
The pilot was flying in a local competition. Conditions on the day were weak and the pilot was the first of th											
competitors to launch. The pilot released in weak lift but failed to centre it and so headed off in search of											
better air. Despite making a number of attempts to climb in weak lift, the pilot found himself at low height											
on the de	ead side of the c	ircuit. The	e pilot con	nmenced a	a right-	-hand	l circuit	: but fle	ew too	o far downv	vind for the
conditior	is and complete	d a very lo	ow base a	nd final tu	rn ont	o the	runwa	y. The j	pilot	recognised	after the
event that	at he could have	safely co	nducted a	in outland	ing or I	modi	fied his	circuit	to la	nd on anoth	ner runway.
Potential	causal factors in	nclude fat	igue due '	to lack of s	leep tl	he pr	evious	night, p	boor I	ore-flight pr	reparation
due to in	terruptions, and	task fixa	tion leadiı	ng to a fail	ure to	breal	k-off th	e flight	at a	safe height.	The pilot
later adv	ised that he will	develop j	personal r	ninima for	break	ing of	ff the fl	ight an	d foc	us on plann	ing his circuit
to ensure the final turn can always be completed at a safe height.											

Date	3-Feb-2015	Region	1	WAGA		SOA	AR Repo	ort Nbr		S-	0494
Level 1	Environment		Level 2	١	Weath	er		Level	3	Other Wea	ather Events
A/C Mod	el 1		Grob G	109B		A/C	Model	2			
Injury	Nil	Dama	age	Nil Phase			In-Flight			PIC Age	67
experient moving fi the rain. who fail t	was keen to retu ced strong lift to ront and was eng Pressing on into to plan for the we continue to fly i	10,000ft Julfed in a adverse v eather co	and tried a violent weather i onditions,	l to outrun sandstorm s one of th who do no	the st . The p e majo ot prop	orm. bilot s or cau berly	The pil success uses of assess	ot was fully lai accider the wea	unab nded nts in ather	le to outrur at the home general avia during fligh	n the fast e airstrip in ation. Pilots it, or who

Date	9-Feb-2015	Region	1	VSA		SOA	R Repo	ort Nbr		S-	0496
Level 1	Operational		Level 2	Terra	ain Col	lisior	IS	Level	3	Collision w	ith terrain
A/C Mod	el 1		ASW	20		A/C	Model	2			
Injury	Nil	Dama	age	Minor	Pha	ise	Launc	h		PIC Age	77
The glide	r was being laun	ched fror	n the wii	nch release	by a lo	ow po	owered	RA-Au	s tow	, plane, in cr	oss-wind
conditior	is, and on a grass	s runway.	The pilo	t had set fu	ıll nega	ative	flap an	d a sma	all am	ount of airb	orake to
assist wit	assist with aileron control, and trimmed full forward. The initial roll was normal and during acceleration, and										
	at about 20 knots, the airbrake was retracted and the flap was moved to negative 2 at which point the right										
-	wing dropped rapidly and the glider became quickly out of station 20 degrees. The pilot released, and at this										
	point the trajectory was towards a wire fence. Maximum braking was applied and the pilot deliberately										
-	poped. As the gli								•		
	. The aircraft su			•		-				-	
	d de-lamination									-	
	to port wing lov		-								-
	elly release is not		-			-					
	cable release du	-		-			-	-			-
	ng airbrakes for			-	-		-				
	ateral control is				-		-			•	
-	ig going against l		-					-		-	
	n a slower accel									-	
	ne glider is more	-	-	-	being	towe	ed off t	he nose	e rele	ase and, sho	ould it swing,
it is more	likely to continu	ue into a g	ground lo	оор.							



Date	9-Feb-2015	Regior	1 I	VSA		SOA	R Repo	ort Nbr		S-	0497
Level 1	Environment		Level 2	el 2 W		fe		Level	3	Birdstrike	
A/C Mod	el 1	LS 6				A/C	Model	2			
Injury	Nil	Dama	age	Minor	Pha	nase In-Flight				PIC Age	56
While thermalling during a cross-country flight and just prior to entering the final turn point sector, a wedge-									tor, a wedge-		
tailed eag	gle drifted in fror	nt of the g	glider and	struck the	e cano	ру са	using n	ninor so	cratch	nes. The pilo	t noted he
had full c	had full control and a visual inspection by another pilot flying above confirmed there were no signs of										
damage.	The pilot turned	short in	the sector	r and retur	ned to	o the	home a	airfield	witho	out further i	ncident.
Note: An	Note: An adult Wedge-tailed Eagle has a wingspan of up to 2.5 metres and can weigh up to 4kg.										

Date	10-Feb-2015	Region	1	VSA		SOA	AR Repo	ort Nbr		S-	0493
Level 1	Operational		Level	2 Run	iway E	vent	5	Level	3	Runway in	cursion
A/C Mod	el 1		ASW	27-18		A/C	Model	2	AER	O COMMANDER 680-FL	
Injury	Nil	Dama	age	Nil	Pha	hase Ground Ops				PIC Age	66
While towing the glider back to the tie down area after a competition flight, the experienced glider pilot							der pilot				
stopped	at the holding po	oint of the	e runwa	iy to avoid co	onflict	with	landing	g glider	s. The	pilot then	heard the
"Bank Ru	n" aircraft pilot	call down	wind ar	nd took the c	pport	unity	to cros	ss the r	unwa	y. The glide	r pilot gave a
call "ente	ering and backtra	icking" ar	nd then	entered the	runwa	ay. Ui	nfortun	ately, t	he gli	der pilot mi	ssed the call
that the "Bank Run" aircraft was already established on final approach and committed a runway incursion.											
The "Ban	k Run" aircraft e	xecuted a	a misse	d approach a	nd re-	ente	red the	circuit	. The	glider pilot	contacted
the "Bank Run" pilot and apologised.											

Date	10-Feb-2015	Regior	ı	VSA		SOA	R Repo	ort Nbr		S-	0492	
Level 1	Consequential	Events	Level	L Lo	ow Cir	cuit		Level	3	Low Circui	t	
A/C Mod	el 1		Duo D	iscus T		A/C	Mode	2				
Injury	Nil	Dam	age	Nil	Pha	ise	Landi	ng		PIC Age	52	
During a	competition fligh	nt the glio	der drop	ped below f	inal gl	ide b	y a few	hundr	ed fee	et. The pilot	took a	
thermal s	ermal some 10 kilometres from the airfield and climbed the aircraft to 1550ft AGL and again set off on al glide for a straight-in landing. The glider again encountered sink and at 1100ft AGL the pilot elected to											
final glide	al glide for a straight-in landing. The glider again encountered sink and at 1100ft AGL the pilot elected to ploy the sustainer motor. Lift was again encountered and the motor was put away but it did not fully											
deploy th	ploy the sustainer motor. Lift was again encountered and the motor was put away but it did not fully ract leaving the propeller and engine-bay doors in the slipstream. The pilot completed his pre-landing											
retract le												
checks ar	act leaving the propeller and engine-bay doors in the slipstream. The pilot completed his pre-landing cks and at about 150ft AGL he dived the aircraft to within a couple of feet from the ground (stubble											
• •	cks and at about 150ft AGL he dived the aircraft to within a couple of feet from the ground (stubble dock) to use the principle of 'ground effect' to complete the flight. The aircraft touched down twice in											
-	cks and at about 150ft AGL he dived the aircraft to within a couple of feet from the ground (stubble dock) to use the principle of 'ground effect' to complete the flight. The aircraft touched down twice in paddock, after which the pilot climbed several metres to cross the paddock fence, a public road, and											
	airfield boundar	-						-	-	-		
-	tition requireme		-							-		
	anding glider tha			-			-	-		-		
	, where high wor		-		-				-			
	ss. Human factor		-	-				-		-	-	
may lead	to pilots eroding	g safety r	nargins	more than ir	n norm	nal no	on-com	petitio	n flyir	ng. Being aw	are of the	
dangers o	of continuing into	o margina	al circur	nstances, se	tting b	ounc	laries, l	having	a sou	nd knowled	ge of rules	
and proc	edures, discipline	ed adher	ence to	minima and	perfo	rman	ce requ	uiremei	nts, p	rioritisation	of options,	
	ning to deal with						-					
should no	ot resort to using	g'ground	effect'	o stretch th	e glide	e. In c	order fo	or groui	nd eff	ect to be of	significant	
magnitud	le, the wing mus	t be quit	e close t	o the groun	d, sucl	n as d	luring t	he lift-	off fo	r take-off or	just prior to	
touchdow	vn when landing	•										



Date	14-Feb-2015	Region	1	NSWGA		SOAR Report Nbr				S	-0499	
Level 1	Airspace		Level 2	Aircra	ift Sepa	aratio	on	Level	3	Near colli	sion	
A/C Mod	el 1		DG-10	00S		A/C	Model	2	DG-	300 Club El	an	
Injury	Nil	Dama	age	Nil	Phas	se	Therm	nalling		PIC Age	73	
The pilot	and instructor w	ere unde	ertaking a	type conv	ersion o	checl	k flight	in a DO	G1000	). After con	ducting some	
	other handling		-						-	-	-	
	ay. The thermal	-		-								
	broken and the glider was not climbing. The pilots left the thermal and headed north in search of better lift.											
	Some weak lift was subsequently encountered and the glider commenced a shallow right-hand turn. After											
-	completing one full turn both pilots observed another glider approaching from the right and behind. As the											
	DG 1000 pilots continued the turn they noted that other glider appeared to be on a collision course and the Flarm emitted a collision warning. Almost simultaneously the pilot under check banked the DG 1000 steeply											
		-			•	•						
	t as the pilot of t						-		-	-		
-	turned to the ai				-						-	
	irmed that he ha	-								-		
	Ild make way for			-	-					-	-	
	e judged so you I		-		-			-			-	
	vards the outside			-	-						. –	
-	member that th	-	-			-			-			
	e primary respor			•		-						
	hanoeuvre to av	-								-		
	the pilot should		-		-		-					
-	re flying. For any	-					-	ing in a		vueu inerm	ai is díl	
auvanced	l skill. If you are	not up to	it, GU FII			RIVIA	\L.					

Date	15-Feb-2015	Regior	า	SAGA		SOAR Re	oort Nbr		S-	0500	
Level 1	Operational		Level	2 Terra	ain Colli	sions	Level 3		Collision w	vith terrain	
A/C Mod	el 1		Twir	n Astir		A/C Mod	el 2				
Injury	Nil	Dama	age	Substantial	Phase	e Lan	ding		PIC Age	53	
While flying cross-country in central Australia the pilots experienced strong conditions and climbs to over									os to over		
11,000ft. During the course of the flight the glider got into the lower levels of convection, where thermals											
were rou	were rough and far apart, and an outlanding became inevitable. Outlanding options in the area are limited										
to knowr	n airstrips or pub	lic roads.	The pil	ots searched	for lift	within re	ach of a p	ubli	c highway b	ut were	
unsucces	sful in climbing a	away, so a	a decisi	on was made	e to land	d on the i	oad. As th	ne p	ilots flew a c	circuit they	
noticed a	i single motor ca	r heading	g towar	ds them in th	ie distar	nce. The	oilots mov	ed t	heir aiming:	point	
further a	long the road to	avoid the	e vehicl	e, resulting ir	n the air	rcraft lan	ding towa	rds a	a culvert pas	ssing under	
the road	that was border	ed by AR	MCO ra	iling. Unable	to stop	in time,	the comm	and	pilot maint	ained the	
wings lev	el to clear the A	RMCO rai	iling bu <sup>.</sup>	t as the aircr	aft slow	ed the ri	ght wing lo	owe	red and coll	ided with a	
traffic sig	n half-way along	g the raili	ng caus	ing the aircra	aft to gr	ound loo	p. The airo	craft	suffered su	ıbstantial	
damage	damage but neither occupant was injured.										



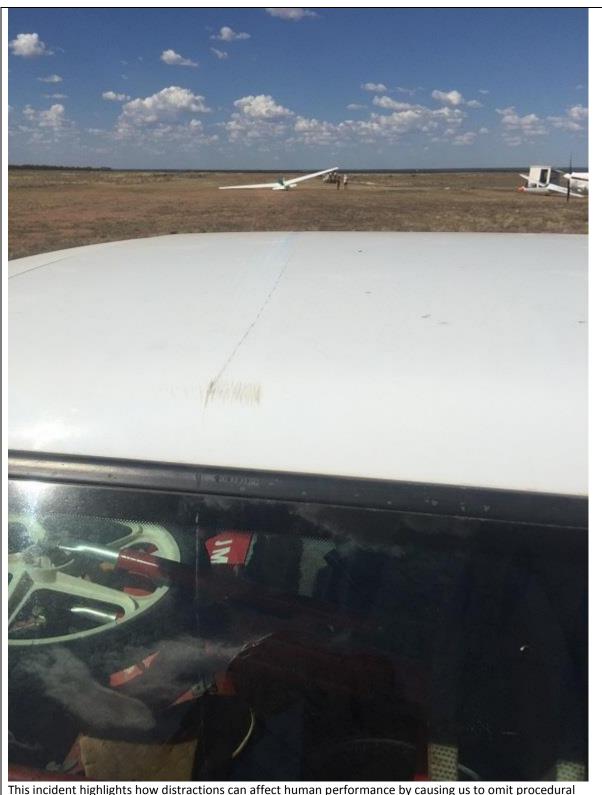


Date	21-Feb-2015	Region		SAGA		SOA	AR Repo	ort Nbr		S-	0503	
Level 1	Operational		Level 2	Terra	ain Collisions     Level 3       A/C Model 2       Phase     Landing       dwind and at about a height       glider to climb above the to       proper practice. The pilot l       the same runway as the tal       the turn but was too low to       ed to the ground and the air			3	Collision w	vith terrain		
A/C Mod	el 1		Duo D	iscus		A/C	Model	2				
Injury	Nil	Dama	ige S	ubstantial	Pha	ise	Landi	ng		PIC Age	47	
After a n	ormal aerotow la	unch into	o a 5 to 1	0 knot hea	dwind	and	at aboı	ut a hei	ght o	f 200 to 300	ft AGL, the	
combinat	tion flew through	n some sti	rong lift (	causing the	glider	r to cl	limb ab	ove the	e tow	plane. The	pilot lost	
sight of t	sight of the tow plane and released in accordance with proper practice. The pilot lowered the nose to											
maintain	maintain airspeed and flew a turn that to land back on the same runway as the take-off, rather than landing											
in a suita	in a suitable paddock. The pilot managed to complete the turn but was too low to make the runway and											
landed in	anded in scrub. After touchdown the left wing dropped to the ground and the aircraft turned through 90											
-	with the nose wh		-									
	ally damaged bu											
	ive years, was so	-		-		•		•			•	
	nvestigation by the	-			-		-					
	uld be a normal l	•				•		•				
	ircraft. The deci						-			-		
	. The pilot has b											
	highlights the im	-	-	-					-	-	-	
	s demonstrated				-							
	d arrival into a fi				s, catch	ning a	a wing t	ip, stal	ling o	r spinning. I	Remember,	
the less y	ou have to turn,	the safer	you will	be.								



Date	21-Feb-2015	Regior	1	SAGA		SOA	AR Repo	ort Nbr		S-	0507
Level 1	Operational		Level 2	evel 2 Aircraft Control Level 3				3	Incorrect of	configuration	
A/C Mod	el 1		HK-36	ттс	A/C Model 2         I       Phase       Landing       PIC Age         ng operations and had just taken off with a Duo D						
Injury	Nil	Dama	age	Nil	Pha	ons and had just taken of				PIC Age	61
The experienced pilot was engaged in aerotowing operations and had just taken off with a Duo Discus in											
	tow. Early in the climb and at about 300ft AGL the glider pilot lost sight of the towplane and released. The										
	continued to cli										
had land	ed to the left of t	the runwa	ay in a clo	ud of dust	and b	ecam	ne conc	erned f	for th	e pilot's wel	fare. Due to
this distr	action, the pilot	forgot to	wind-in t	he tow rop	e (TO	ST ele	ectric re	ewind s	ysten	n). The pilot	conducted a
power-on approach and touched down in the normal glider landing zone. During the flare a jolt was											
transmit	ted along the tov	v rope an	d the pilo	t realised t	that th	ie rop	be was	still ext	ende	d. The rope	and rings
had impa	had impacted a vehicle parked near the approach.										





This incident highlights how distractions can affect human performance by causing us to omit procedural steps, forget to complete tasks, or take shortcuts that may not be for the better. It also provides a reminder to members to ensure people, vehicles and other obstructions are kept clear of the runways at all times.



Date	21-Feb-2015	-0			SOA	R Repo	ort Nbr		S-0529		
Level 1	Operational		Level 2	el 2 Aircraft C		ontrol Lev		Level 3		Incorrect configuration	
A/C Mod	el 1		Twin Ast	tir -LP	,						
Injury	Nil	Dama	age	Minor	Phase Landing				PIC Age	52	
A/C Model 1 Twin Astir -LP A/C Model 2								acted by y was not opy opening nding roll. It ated a			

Date	24-Feb-2015	Regior	า	WAGA		SOAR Report Nbr				S-0506	
Level 1	Operational		Level 2		Airfrar	ne		Level	3	Landing gear/Indic	ation
A/C Mod	el 1	SZD-4	18-3 Jant	ar Standard	13	A/C Model 2					
Injury         Nil         Damage         Minor         Phase         Landing         PIC Age           Due to excessive sink after launch, the pilot found himself on circuit. The undercarriage was lower         Difference         Difference <td>66</td>									66		
pre-landi came to a undercar Pilots sho	ccessive sink afte ng check was ca a stop suffering riage was activa ould familiarise t ng checks.	rried out minor ab ted, the p	As the a rasions to pilot did i	iircraft touc o the fusela not confirm	hed-d ge. Al that t	own thoug he ur	the und sh the h ndercar	dercarr handle riage le	iage c for lo ever b	collapsed an wering the outton was f	d the glider ully up.

Date	1-Mar-2015	Regior	۱	NSWGA		SOA	AR Repo	ort Nbr		S-0513	
Level 1	Technical		Level	vel 2 System			ms Lo		3	Avionics/F	light
										instrumen	ts
A/C Model 1 Twin Astir A/C Model 2											
Injury Nil Damage Nil Phase In-Flight PIC Age 53									53		
uneventf After clea that he fa importan	ne first flight of the ful landing, the p aning the pitot, t ailed to conduct nce of diligently c nts. The Club no	itot tube he aircra an instru carrying c	was ins ft was r ment cl out the l	pected and f eturned to s neck as part DI, which inc	found ervice of the ludes	to be . The Daily unde	blocke experie Inspec rtaking	ed by m enced c tion. Th	ud w comm nis inc	here wasps and pilot ac cident highli	had nested. knowledged ght the

4-Mar-2015	Region	1	VSA	SOAR Report Nbr			S-	0508			
Operational		Level 2	el 2 Aircraft		Control		Level	3	Wheels up	anding	
el 1		Horn	et		A/C	Model	2				
Nil	Dama	age	Minor	Pha	ise	Landi	ng		PIC Age	48	
InjuryNilDamageMinorPhaseLandingPIC Age48After a short local flight the pilot decided to return to the airfield as he was not connecting with thermals.											
king the decision	to break	-off the f	ight, the p	ilot m	oved	the un	dercarr	iage	ever and jo	ined circuit.	
The pre-landing checks were made but the pilot did not check the placards to confirm the undercarriage was											
d locked as he wa	as distrac	ted by a s	strong cros	sswind	com	ponent	t. While	e on fi	nal approac	ch and	
	Operational el 1 Nil ort local flight the king the decision anding checks we	Operational el 1 Nil Dama ort local flight the pilot d king the decision to break anding checks were made	Operational     Level 2       el 1     Horn       Nil     Damage       ort local flight the pilot decided to       king the decision to break-off the fl       anding checks were made but the	Operational     Level 2     Airc       el 1     Hornet       Nil     Damage     Minor       ort local flight the pilot decided to return to       king the decision to break-off the flight, the panding checks were made but the pilot did not	Operational     Level 2     Aircraft College       el 1     Hornet       Nil     Damage     Minor       Phate     Phate       Nort local flight the pilot decided to return to the air       king the decision to break-off the flight, the pilot m       anding checks were made but the pilot did not check	Operational         Level 2         Aircraft Contro           el 1         Hornet         A/C           Nil         Damage         Minor         Phase           ort local flight the pilot decided to return to the airfield king the decision to break-off the flight, the pilot moved anding checks were made but the pilot did not check the	Operational         Level 2         Aircraft Control           el 1         Hornet         A/C Model           Nil         Damage         Minor         Phase         Landi           ort local flight the pilot decided to return to the airfield as he within the decision to break-off the flight, the pilot moved the unanding checks were made but the pilot did not check the place         Aircraft Control	Operational         Level 2         Aircraft Control         Level           el 1         Hornet         A/C Model 2           Nil         Damage         Minor         Phase         Landing           ort local flight the pilot decided to return to the airfield as he was not king the decision to break-off the flight, the pilot moved the undercarr anding checks were made but the pilot did not check the placards to compare the pilot did not check	Operational         Level 2         Aircraft Control         Level 3           el 1         Hornet         A/C Model 2           Nil         Damage         Minor         Phase         Landing           ort local flight the pilot decided to return to the airfield as he was not conn         king the decision to break-off the flight, the pilot moved the undercarriage landing checks were made but the pilot did not check the placards to confirm	Operational         Level 2         Aircraft Control         Level 3         Wheels up           el 1         Hornet         A/C Model 2         Aircraft Control         Level 3         Wheels up           Nil         Damage         Minor         Phase         Landing         PIC Age           Iort local flight the pilot decided to return to the airfield as he was not connecting with king the decision to break-off the flight, the pilot moved the undercarriage lever and jo	



Accident and Incident Summaries

focussed on the aiming point, the pilot heard someone call over the radio "GEAR! GEAR! GEAR! By the time the pilot realised his gear was up the aircraft was close to the round-out position. The pilot initially reacted by pulling the nose up but then lowered it to regain airspeed, following which the aircraft landed heavily and suffered minor damage. It appears the pilot did not complete a post-launch check and left the undercarriage down during the flight. This accident highlights the importance of checking the undercarriage lever to the placards. It also serves as a reminder to external observers not to distract the pilot during the critical stage of a landing. Had the pilot not been distracted by the radio call he may have landed normally, albeit with the wheel retracted, with less damage.

Date	6-Mar-2015	Region	1	GQ			R Repo	ort Nbr		S-0510	
Level 1	Airspace		Level 2	Airspac	e Infri	ngen	nent	Level 3		Airspace Infringement	
A/C Mod	el 1	SZD-4	8-1 Janta	ır Standard	2	A/C	Model	2			
							0 - 0 -				
A/C Model 1 SZD-48-1 Jantar Standard 2 A/C Model 2											

Date	6-Mar-2015	Region		GQ		SOA	AR Repo	ort Nbr		S-	0511
Level 1	Airspace		Level 2	Airspac	e Infri	ingen	nent	Level	3	Airspace Ir	nfringement
A/C Mod	el 1		Duo D	iscus		A/C	: Mode	2			
Injury	Nil	Dama	ge	Nil	Pha	hase In-Flight				PIC Age	73
The pilot inadvertently entered controlled airspace while climbing in a thermal close to the airspace											
	boundary. The airfield is sited under restricted airspace, and a local arrangement is documented for the use										
of a port	on of the restric	ted airspa	ce by th	e local glidi	ng clu	ıb. Or	n the da	ay of th	e inci	dent the air	space had
been rele	eased but the pil	ot was obs	served b	y ATC to be	e outsi	ide th	ne relea	ised are	ea and	d within the	boundary of
controlled airspace. ATC contacted the Club and the Club informed the pilot, who promptly vacated the											
area. Thi	s incident highlig	hts the im	nportan	e of pilots	maint	ainin	g adequ	uate se	parati	on from air	space
boundari	es, both laterally	/ and verti	ically.								

Date	12-Mar-2015	Regior	า	SAGA		SOA	AR Repo	ort Nbr		S-0512		
Level 1	Operational		Level	evel 2 Ground Operations Level				el 2 Ground Operations Level 3 Taxiing collision/		lision/near		
										collision		
A/C Model 1 HK-36TTC A/C Model 2 Duo Discus												
Injury         Nil         Damage         Substantial         Phase         Landing         PIC Age         48												
While tax	While taxying the Super Dimona motor glider to position for the launch of a Duo Discus, the tow pilot misjudged the distance between the two aircraft and the left wingtip of the tow plane collided with the											
misjudge	d the distance b	etween t	he two	aircraft and t	the lef	t win	gtip of	the tov	v plar	ne collided v	vith the	
-	using significant	-								•	•	
	ate to stop the a			-			-					
handler activities to pull out the tow rope (this aircraft has a retractable towing system). Tow pilots must												
	ensure they maintain a safe distance to manoeuvre while preparing for the tow, and to ensure that comfort											
and ease	and ease of operation do not compromise safe operations.											



Date	12-Mar-2015	Regior	۱	VSA		SOA	R Repo	ort Nbr		S-	0517	
Level 1	Operational		Level 2		Fligh	t		Level	3	VFR into IN	ЛС	
				Preparation/Navigation								
A/C Mod	el 1		ASK-	21		A/C	Model	2				
Injury	, 8				Pha	ise	In-Flight			PIC Age	50	
During ar	During an extended soaring flight over the Victorian High plains a convergence lift line had formed a bank of											
cloud bet	cloud between 7000ft to well above 10,000ft. There was good lift on the north side of the convergence and											
several g	liders made use o	of it to ga	ain height	and explor	e the	area.	. One o	f the gl	iders	had a came	ra and	
filmed th	e conditions inclu	uding the	ermalling	with anoth	er glic	ler, si	ubsequ	ently p	ostin	g the footag	e on the	
internet.	The footage reve	ealed tha	t at least	one glider	had b	reach	ed VM	C by fly	/ing to	po close to t	he cloud.	
	The pilots concerned were counselled by their CFI. While it is tempting to fly close to cloud when conditions											
allow, pil	allow, pilots need to comply with the VFR visibility and distance from cloud criteria stipulated in ENR 1.2											
Section 2	ection 2 (i.e. 1500M horizontal and 1000ft vertical when above 3,000ft AMSL or 1,000ft AGL).											

Date	21-Mar-2015	Regior	۱ I		GQ		SOA	R Repo	ort Nbr		S-	0515
Level 1	Operational	Operational L			Level 2 Misc				Level	3	Rope brea	k/Weak link
											failure	
A/C Mod	el 1		Nimbus-4DM         A/C Model 2         Piper PA-25-235           Provide the second secon				5					
Injury	njury Nil Da Dn launch at about 850ft AGL th				Nil Phase Launch			:h		PIC Age	73	
airfield w glider and The Club towards t	h at about 850ft as initiated, foll d as the tug was has been testin the end of the ti emonstrated use	owed by applying g the suit rial period	an une take-e ability d and t	event off po of 1 the c	tful landir ower the 0mm 160 lub has no	ng. And tow ro Okg po	other pe ag	tow ro gain fai opylene	pe was led at g rope.	attao lider The ro	ched to the end of the t ope failures	tug and cow rope. occurred

Date	21-Mar-2015	Regior	1 I	NSWGA		SOA	R Repo	ort Nbr		S-	0514
Level 1	Operational		Level 2	Terra	ain Col	lision	IS	Level	3	Collision w	ith terrain
A/C Mod	el 1		PW-5 3	Smyk		A/C	Model	2			
Injury	Minor	Dama	age S	ubstantial	Pha	se	Landi	ng		PIC Age	73
The expe airfield. L gliders we and, as th a low hei, high sink airfield be horizonta pilot suffe and comp The pane stress site	rienced pilot lau Jpon release fro ere already oper ne aircraft got clo ght (600ft AGL). and into the pre oundary fence so al stabilizer were ered minor injur placency were co I suggested that uations and the	m the wir rating. The oser to the The pilot evailing 15 to low that torn off y. Post ac ontributir glider pil need to a	e the pilo e pilot ha e ridge th turned b 5 knot wi t the tails and the a ccident ar og factors ots need void, as f	ot turned d id become ne pilot rea ack towarc nd. The pilo wheel caug ircraft cam nalysis by th , together to remain	ownwi fixated lised h ls the a ot cont ht on t he to re ne Club with ta alert to	ind an le had airfie inued he to est he o's Op ask fix o the	nd hea monito d insuff ld on a d to fly op strar eavily ju peratio kation a insidio	ded tow ring the ficient h margin toward nd. The ust insid ns Pane and a la ous natu	wards e posi neigh nal fin ds the tailw de the el det ack of ure of	the ridge w tion of the o t to continu- al glide in a a airfield and heel structu e boundary ermined that situational complacen	where two bother gliders e and was at n area of d crossed the are and fence. The at familiarity awareness. cy in low
to the de	triment of situat	ional awa	areness.								





Date	25-Mar-2015	Regior	۱	VSA		SOA	R Repo	ort Nbr		S-0533		
Level 1	Operational	Level 2 A			Airfrar	ne		Level	3	Landing		
				gear/Indication				ation				
A/C Mod	el 1			A/C	Model	2						
Injury	Nil	age	Minor Ph			Landi	ng		PIC Age	55		
The aircr	aft was being us	ed during	; an inst	ructor traini	ng cou	irse. T	The Ins	tructor	cand	idate landeo	d long and	
the aircra	aft rolled throug	h a rough	area of	the runway	result	ing ir	the w	ooden	nose-	skid fractur	ing where it	
flexed ag	flexed against the steel shoe. The steel shoe has been relocated on the replacement skid to remove the											
stress po	stress point.											

Date	25-Mar-2015	Regior	1 I	GQ		SOA	R Repo	ort Nbr		S-	0566	
Level 1	Operational		Level 2					Level	3	Other Flig	nt Prep/Nav	
				Preparation/Navigation					Issues			
A/C Model 1 MDM-1P "FOX-P" A/C Model 2 N/A												
Injury	Nil	Dama	age	Nil	Pha	ise	In-Flig	ght		PIC Age	58	
An exper	An experienced aerobatic pilot conducted a low-level solo aerobatic flight in a glider without appropriate											
CASA app	proval. The pilot	mistaken	ly believe	d the low-	level a	erob	atic en	dorsem	ent t	o his CASA l	icence also	
applied to	o sailplanes. Pur	suant to (	CAO 95.4	glider ope	ration	s mus	st only	be unde	ertak	en in accord	ance with	
GFA requ	irements, and a	CASA lice	ence has r	no authorit	y. Par	agrap	h 6.4 o	f the G	FA op	erational R	egulations	
requires	requires pilots to have written permission from CASA to conduct aerobatics in a glider below 1,000ft AGL.											



Date	28-Mar-2015	Regior	I	VSA		SOA	R Repo	ort Nbr		S-	0516
Level 1	Operational		Level 2	vel 2 Aircraft C		ontro		Level	3	Incorrect of	configuration
A/C Mod	el 1		DG-300	Elan		A/C	Model	2			
Injury			Pha	hase Launch				PIC Age	62		
accelerat launch ei not fully his arm a reminded positione	akes deployed de ion forces and w nsued. The pilot a locked them. Inv nd marginally lea d him that the fir ed to allow for co edals adjusted fo	as unable advised t estigatio an forwar st 'C' in t mfortabl	e to lock t hat he rec n revealed rd against he post-b e access t	hem. Neve alled chec d that his s the harne oarding ch o all flight	erthele king tl eating ss in o eck is:	ess, th he air g posi order CON	ne airbr brakes tion wa to lock TROL A	were consistent of the air of the	emain closed that l brake (Seat	ed closed a l but he obv he had to fu es. The pilot adjustment	nd a normal iously had lly extend 's CFI :s secure and

Date	28-Mar-2015	Regior	1	WAGA		SOA	AR Repo	ort Nbr		S-0518	
Level 1	Operational		Level 2	Run	nway Events Level 3			Runway in	cursion		
A/C Mod	el 1		DG-10	000S		A/C	Model				
Injury	Nil	Dama	age	Nil	Pha	ase	Landi	ng		PIC Age	40
establish vehicle. 1 and may	vehicle was drive ed on final appro he glider landed not have been u dios when enteri	bach. The safely fu sing radio	glider pi rther dov o. The Clu	ot avoided wn the run b CFI has c	confl way. T	ict by he dı	closing river of	g the ai the ve	rbrak hicle f	es and over failed to sigi	flying the nt the glider

Date	29-Mar-2015	Region		WAGA		SOA	R Repo	ort Nbr		S-	0530	
Level 1	Operational	Lev	/el 2	Run	way E	vents	5	Level	3	Runway ex	cursion	
A/C Mod	el 1	Pipe	er PA2	25-235		A/C	Model	2				
Injury	Nil	Damage		Minor	Pha	ise	Landi	ng		PIC Age	75	
	The pilot reported that he was landing the tow plane in a left crosswind following a glider launch. The											
	accident occurred during a full-stop landing on the hard-surface runway. The pilot reported that he made an uneventful approach and touchdown on the runway; however, during the landing roll, the airplane suddenly											
				• •			-		-		•	
	o the left. The pile						-			-		
	o regain direction		-				-		-	-	-	
	ide of the runway			• .		-		-	-	-		
accident	accident examinations of the tow plane and tailwheel assembly established that there were no anomalies or											
mechani	echanical issues to explain why the wheel locked-up. The crosswind would have exacerbated the situation.											

Date	3-Apr-2015	Regior	n	WAGA		SOA	AR Repo	ort Nbr		S-	0522	
Level 1	Operational		Level 2	Rur	nway E	vents	5	Level	3	Runway in	cursion	
A/C Mod	el 1	AUSTE	RAIRCRA	AFT LTD J5G	/A2	A/C	Mode	2	ASW	/ 17/19 m		
Injury	Nil	Dama	age	Nil	Pha	ase	Grour	nd Ops		PIC Age	72	
With the	With the intention of taxying to the fuel bowser, the tow plane pilot made a radio broadcast of his intentions											
and ente	and entered the operational runway. Shortly after lining up and commencing to take-off the tow pilot											
noticed t	he radio master	switch w	as in the	off position	n and t	turne	d it on.	The to	w pilo	ot then hear	rd a radio call	
from a gl	ider in flight and	observed	d it linin	g up on fina	lappro	bach	to the o	operatio	onal r	unway. The	tow pilot	
aborted t	the take-off after	briefly b	ecomin	g airborne a	nd va	cated	the ru	nway. T	he gl	ider landed	normally	
and well	and well clear of the tow plane. This incident highlights the importance of completing cockpit checks, even											
when on	when only taxying around the aerodrome. Since good radio discipline is the key to preventing runway											



Accident and Incident Summaries

incursions at uncontrolled airports, it is important to ensure the radio is switched on and operating before starting to taxi.

Date	3-Apr-2015	Regior	Region WAGA				SOA	AR Repo	ort Nbr		S-	0551
Level 1	Operational		Level 2 Ground Operations Level 3			3	Taxiing col collision	lision/near				
A/C Mod	el 1	AN	AMT-200			A/C	Model	2	N/A	L.		
Injury					bstantial	Pha	nase Ground Ops				PIC Age	60
glider's p appropria	noeuvring at a n ort wingtip strue ately qualified b ying privileges s	ck a wind ut was fly	sock re ing wi	esult ithou	ting in sub ut a curren	stantia It Ann	al dai	mage. I	nvestig	ation	revealed th	e pilot was

Date	5-Apr-2015	Regior	ו ו	VSA		SOA	AR Repo	ort Nbr		S-	0538		
Level 1	Technical				Syster	ns		Level	3	Avionics/F instrumen	0		
A/C Model 1     LS 4-a     A/C Model 2       Injury     Nil     Damage     Nil     Phase     In-Flight													
Injury	Nil	Dam	age	Nil	Pha	ise	In-Flig	ght	PIC Age 46				
During la	During launch the pilot noticed the airspeed indicator to be flickering wildly +/- 20 knots. The pilot remained												
on tow a	nd released at a	safe heig	ht. The A	SI continue	ed to p	rovid	le error	neous r	eadin	gs, so the p	ilot aborted		
the flight	and landed with	hout incid	lent. Post	-flight insp	ectior	reve	aled w	ater ha	d ent	ered the pile	ot system -		
the aircra	aft had been par	ked outsi	de overni	ght with th	ne pito	t and	l static	vents u	ncov	ered. An ins	trument		
function	check during the	e Daily Ins	spection d	lid not ider	ntify tł	ne pro	oblem.	This ind	cident	t highlights t	the benefit		
of sealing	of sealing the pitot and static ports against water ingress when the aircraft is parked outside (Note: use tape												
of a cont	of a contrasting colour to the fuselage).												

Date	5-Apr-2015	Regior	1 I	WAGA			AR Repo	ort Nbr		S-	0523
Level 1	Technical		Level 2	Level 2 Sv		ns		Level	3	Other Syst	ems Issues
A/C Mod	el 1		ASW	27-18		A/C	Mode				
Injury	Nil	Dama	age	Nil	Pha	ise	Launo	h		PIC Age	62
release. <sup>-</sup> investiga	AGL during an a The glider pilot c tion indicates the rom the standard	ompletec e rope re	l a 135 d leased b	egree turn ecause the	and la Tost ri	nded	safely	onto th	ie rec	iprocal runv	vay. Initial

Date	5-Apr-2015	Regior	Region WAGA SOAR Report Nbr					S-0531			
Level 1	1 Operational Level 2 Miscellaneous					;	Level 3		Other Mise	cellaneous	
A/C Model 1 KR-03A Puchatek A/C Model 2 F							Pipe	er PA-25-235	5		
Injury Nil Damage Nil Phase Launch PIC Age 61							61				
towplane and had t and the g	to launch the co in reverse fashi the tow rope re- round crew had to the tug end o	on; i.e. w attached not paid	ith the v correctl sufficier	veak link at y. The tow p nt attention	the gli blane l to the	ider e nad ju e task	end. The ust retu of re-a	e comm rned to ittachin	hand   the f g the	pilot stoppe flight line fro rope. A we	d the launch om refuelling ak link must
ground or cause damage to the tail.											



Date	6-Apr-2015	Regior	۱	GQ		SOA	R Repo	ort Nbr		S-0574		
Level 1	Operational			Flight			Level 3		Aircraft preparation			
				Prepara	eparation/Navigation							
A/C Model 1 Hornet A/C Model 2 N/A												
Injury	Nil					Phase Ground Ops				PIC Age	60	
The aircr	aft was cleared f	or flight a	and then	flown with	a maj	or de	fect re	corded	in the	e Maintenar	nce Release.	
The expe	rienced pilot did	not noti	ce a Majo	or Defect w	as rec	ordeo	d in the	Mainte	enand	ce Release d	uring the	
Daily Insp	pection. Fortuna	tely the c	lefect wa	s only mind	or and	did n	ot affe	ct the s	afety	of flight. Be	fore starting	
a Daily In	spection, it is es	sential to	check th	at the Maii	ntenar	nce R	elease	is valid,	and	no Major De	efects are	
recorded	which prevent f	light. Als	o check t	he details c	of any :	schec	luled m	nainten	ance	as listed.		

Date	12-Apr-2015	Regior	1 I	VSA		SOA	R Repo	ort Nbr		S-	0535
Level 1	Operational		Level 2	ļ	Airfrar	ne		Level	3	Objects fa	lling from
										aircraft	
A/C Mod											
Injury	Nil	Nil Damage Nil Phase In-Flight PIC Age 76								76	
During fli	ght the Trim Bal	t the Trim Ballast cover fell from the fin and was lost. After landing and during the next pre-								ext pre-	
boarding	rding walk-around inspection, it was noticed that the trim ballast weights were half-way out and										
unsecure	d. It was determ	ined that	the Pers	pex cover f	or the	e trim	ballast	: box h	ad no	t been prop	erly locked
and fresh	i tape had not be	een applie	ed as requ	uired by the	e Aircı	aft Fl	light M	anual.	Invest	tigation reve	ealed that
	e two smaller 1.2	-		•							
	e cover can be s					•				•	•
	essed firmly in p						-		-		
	and to then push the locking mechanism upward until it is fully engaged. Fresh tape should always be used										
	the perimeter of	the cove	r and the	pilot must	confi	rm co	orrect o	peratio	on to f	the indicato	r lights in
the cockpit.											

Date	12-Apr-2015	Regior	1 I	NSWGA		SOA	R Repo	ort Nbr		S-0524	
Level 1	Operational		Level 2	Airc	raft Co	ontro		Level	3	Hard landi	ng
A/C Mod	el 1		DG-10	00S		A/C	Model	2			
Injury Minor Damage Substantial Phase Landing PIC Age 78									78		
The flight	t was a standard	training	sequence	and was th	ne seco	ond c	consecu	itive so	rtie w	vith the sam	e aircrew.
The com	mand pilot was a	in experie	enced inst	ructor who	o was i	curre	nt and	familia	r on t	ype. The air	rcraft was
establish	ed high on final	approach	, and the	command	pilot c	pted	to use	side-sl	ip in d	conjunction	with the
airbrakes	to increase the	rate of de	escent to	prevent lar	nding l	ong.	The co	mmano	d pilo	t did not red	cognise the
high rate	of descent and	left the re	ecovery fr	om the sid	e-slip	late a	and too	close t	o the	ground. Jus	st as the pilot
levelled t	he wings the air	craft stru	ck the gro	ound heavil	y and	the ι	underca	arriage	collap	osed. The oc	cupants
suffered	minor injury and	l the aircr	aft was s	ubstantially	/ dama	aged.	Both a	ircrew	were	admitted to	o hospital for
treatmen	it and observation	on and lat	er release	ed. Post-ac	cident	inve	stigatio	on conf	irmec	l that airbra	kes were
deployed	l during the land	ing, and r	marks on	the airfield	and w	vitnes	ss obse	rvation	is con	firmed that	yaw and
bank wer	e present on im	pact.									



#### Accident and Incident Summaries



Deliberately sideslipping a glider is a technique sometimes employed by glider pilots to reduce the performance of the glider in order to lose height as a means of controlling the descent rate during the approach phase prior to landing. While sideslipping is required pilot training, it is employed less as a landing approach technique now than it was in the past as most modern gliders have adequate glide path control (i.e. effective airbrakes) removing the need to use other techniques in most circumstances. The Flight manual for the DG 1000 states "The very effective Schempp-Hirth dive brakes make a short landing possible. So a slip is not necessary as a landing technique". Pilots who have been trained for and are experienced with sideslipping should first explore the sideslipping characteristics of gliders they fly in safe circumstances before using it as a landing approach control technique. When sideslipping a heavy glider pilots should commence the recovery at a height sufficient to overcome the effect of inertia before the ground intervenes.

Date	13-Apr-2015	Regior	า	GQ			AR Repo	ort Nbr		S-0528		
Level 1	Operational		l 2 Miscellaneous			;	Level	3	Other Miscellaneous			
A/C Model 1 ASK-21Mi A/C Model 2												
Injury Nil Damage Nil Phase Launch PIC Age 64									64			
release w small boy	erotow launch ar vithout activation w developing. Th d to incorrect in:	n of the r e aircraft	elease kn : had exp	ob. The inc erienced si	ident milar o	occu disco	rred as nnectio	the rop ns on t	be beo he gro	came taut fo ound that w	ollowing a vere	
attributed to incorrect insertion into the release. Investigation revealed a bolt attaching the pulley system to the Tost lever was too tight causing binding just prior to the fully closed position. Loosening the nut slightly allowed normal operation. The matter has been referred to the airworthiness department for action.												



Date 14-Apr-	2015 Regi	on	SAGA	SO	AR Repo	ort Nbr	S	-0525
Level 1 Operation	onal	Level 2	Groun	d Operati	ons	Level 3	Ground h	andling
A/C Model 1		ASK-2	21Mi	A/0	C Model	2		_
Injury Nil	Da	nage	Minor	Phase	Grour	nd Ops	PIC Age	54
While towing the g								
with the rear of th								
identified as unsui				ts tow bai	r was to	o short. Driv	ver fatigue v	was assessed
as a contributing f			nis venicie.					

Date	15-Apr-2015	Region NSWGA				SOA	R Repo	ort Nbr		S-0558	
Level 1	Operational		Level 2 Ground Operations Level 3				3	Taxiing col	lision/near		
										collision	
A/C Mod	el 1	Discus 2c				A/C	Model	2	N/A		
Injury	Injury Nil Damage Substantial Phase Gr						Grour	nd Ops		PIC Age	38
While be	ing towed back t	to the har	ngar the	glider's win	gtip st	ruck	a tree.	The pile	ot be	came distra	cted by
other obs	stacles and towe	d the air	raft too	close to the	e trees	. The	CFI no	ted tha	t the	club norma	lly uses a
quad bike, with good all around visibility, to tow the gliders but in this case the pilot was using his car and											
visibility	was not as good	. The club	has plac	e high visib	ility m	narke	rs near	the tre	es.		

Date	18-Apr-2015	Region		VSA	SA SOAR Report Nbr		S-0527
Level 1	Operational		Level 2	Aircraft Co	ontrol	Level 3	Hard landing
A/C Mod	el 1		Twin	Astir	A/C Model	2	



Accident and Incident Summaries

Injury Nil Damage Minor Phase Landing PIC Age 46 During the landing flare and while at a height of about three feet above the ground the pilot under training pushed the stick hard forward resulting in the aircraft flying into the ground heavily on the nose and main wheel. The aircraft suffered minor damage, limited to broken undercarriage doors, some minor gelcoat cracking near the undercarriage, and scratches to the lower front fuselage. While the Instructor had adopted a defensive posture, the trainee pilot's actions occurred too quickly for the Instructor to react. The pilot under training could offer no explanation for his reactions. He had only recently came back to gliding after a long hiatus and, while his upper air work was good, he was finding it difficult to achieve the level of skill required for the landing. Unfortunately, motor skills that are not practiced regularly will deteriorate as we age and can be difficult to regain in later life. The pilot has indicated he may cease training but will continue to fly with competent pilots.

Date	25-Apr-2015	Regior	1	GQ		SOA	AR Repo	ort Nbr		S-0573	
Level 1	Operational		Level 2		Flight			Level 3		Aircraft pr	eparation
				Preparation/Navigation							
A/C Mod	Model 1 Hornet A/C Model								N/A		
Injury	Nil	Dama	age	Nil	Pha	ase	Grour	nd Ops		PIC Age	36
The aircr	rcraft was flown with a major defect recorded in the Maintenance Release. The low hour's pilot of								s pilot on		
	ight in the glide		-					-	-	-	
	ing factor was th			•							-
	ay have been co		, ,	•							•
	iness Inspector a		-				•	•			
	MAJOR DEFECT						•	-			
	ents Inspector (if				-		• •				
	not be carried out and the glider must not be flown until the rectification work has been done and the entry										
	Take the initiati	e and or	ganise for	the defect	t to be	recti	fied by	bringir	ng the	matter to t	he attention
of the relevant person."											

Date	26-Apr-2015	Regior	۱	GQ	SOAR Repo			ort Nbr		S-	0534
Level 1	Consequential	Events	<u> </u>			w Circuit Level 3			3	Low Circuit	
A/C Mod	el 1		A	rcus M		A/C	Model	2			
Injury	Nil	Dam	age	Nil	Pha	ise	In-Flig	ght		PIC Age	27
The pilot conducted a 'low-level finish' manoeuvre below the minimum safe height of 50ft. The pilot was counselled by his CFI.										pilot was	

Date	7-May-2015	Region SAGA SOAR Report Nbr					S-0536					
Level 1	Operational		Level	2	Airc	Aircraft Control Level 3 Hard landing						
A/C Mod	el 1	۵	G-500	Elar	n Orion		A/C	Model	2			
Injury         Nil         Damage         Substantial         Phase         Landing         PIC Age         68												
The pilot flying was undertaking a check flight behind a Pawnee tow plane. The launch progressed normally												
and the g	and the glider released from tow at about 2,000ft AGL. Immediately following release the glider's descent											
rate incre	eased dramatical	lly and th	e comn	nano	d pilot (In	struct	or) sı	uggeste	d the h	nandli	ng pilot dive	ert towards
cloud wh	ere it was expec	ted to fin	d lift or	rec	duced sinl	k. Des	pite t	he dive	ersion t	he sin	nk rate rema	ined high
and at a l	height of about 1	1500ft AG	iL and s	om	e 2 kilome	etres f	rom	the airf	ield the	e deci	ision was m	ade to return
and land.	The glider conti	nued to e	experie	nce	a high rat	te of s	ink aı	nd the	pilot fly	/ing p	lanned for a	a downwind
landing o	landing on the operational runway. Due to the high descent rate it became obvious to the command pilot											
that the glider would not make the airfield. At 500ft AGL the command pilot took control and positioned for												



Accident and Incident Summaries

an outlanding. The command pilot did not recall a post-release check being completed and the undercarriage was still down and locked. The aircraft landed heavily in a paddock resulting is substantial damage to the lower front fuselage. The command pilot asserted the airbrakes were closed and locked and that the sink rate was caused by meteorological events, possibly wave related. Review of the flight log reveals the rate of descent commenced immediately post-release following a normal launch profile and adverse meteorological conditions could not be confirmed. The handling pilot has a history of poor decision making, and an alternate possibility for the high sink rate was that he deployed the airbrakes rather than raising the undercarriage post release, as the airbrake and undercarriage levers are in close proximity. The command pilot may not have noticed this because a post-release check was not undertaken, and he may have been convinced that the sink rate was weather related. Towards the latter stages of the flight the command pilot's concentration and focus was on landing the glider safely, and use of the airbrakes may not have been considered due to the high descent rate.

Date	16-May-2015	Region		GQ		SOA	R Repo	ort Nbr		S	-0539
Level 1	Airspace	Lev	vel 2	Aircra	ift Sep	aratio	on	Level	3	Near collis	sion
A/C Mod	el 1		ASK-2	21		A/C	Model	2	Pipe	er PA-25-23	5
Injury	Nil	Damage		Nil	Pha	se	In-Flig	ght		PIC Age	59
A glider ι	Indertaking a tra	ining flight w	ith a p	pre-solo st	udent	ente	red ciro	cuit aro	und t	he same tii	me as a tow
plane. Th	e tow plane pilo	t gave a radio	o call a	advising he	e had t	he gli	ider sig	hted a	nd wo	ould follow,	, and then
just prior	to the base turn	the tow pilo	t info	rmed the و	glider	oilot 1	that he	would	turn	inside and	land first. The
glider ha	d just entered th	e base leg of	its cir	cuit when	the to	w pil	ot gave	e a furtł	ner ra	dio call tha	it he was
passing b	eneath the glide	r and 100ft lo	ower.	Simultane	ously	the co	ommar	nd pilot	in th	e glider sav	v the tow
plane for	the first time in	close proxim	ity be	neath him	. Both	aircr	aft land	ded une	event	fully. While	e radio
commun	ication was good	, there was r	io nee	ed for the t	ow pil	ot to	positio	on his a	ircraf	t directly be	eneath the
glider in	the glider pilot's	blind spot. Tl	ne Rul	les for Prev	/entio	n of C	Collisio	n as det	ailed	in CAR 162	2(3) states
that an a	ircraft that is bei	ng overtaken	has t	he right-o	f-way	and t	he ove	rtaking	aircra	aft, whethe	er climbing,
descendi	ng, or in horizon	tal flight, sha	ll keep	p out of th	e way	of th	e othei	aircrat	ft by a	altering its l	heading to
the right,	and no subsequ	ent change ii	n the	relative po	sitions	s of th	ne two	aircraft	t shal	l absolve th	e overtaking
	om this obligation						• • •		•		
	raft to avoid flyin	-									
	w plane's flight lo	•			•					-	•
	plished on final, v	-									
-	l principle, be wh		•		•						
	e to follow the ru										
	hould be mainta			-			-				
	n the final leg, co			-		-		-		•	
	d by a distance a	•						•			
	surate with the s	-		-		-		-			-
	eted by not less i										• •
	the runway is cl										
	and landing." T							-			-
	counselled and	the Club's to	N pilo	ts have be	en bri	eted	on corr	ect circ	uit pi	rocedures b	by the
Tugmast	er.										

Date	16-May-2015	Regior	า		SAGA		SOA	R Repo	ort Nbr		S-	0550
Level 1	Operational				Airfrar	ne		Level	3	Doors/Can	iopies	
A/C Mod	A/C Model 1				Mini-Nimbus B			A/C Model 2 N/				
Injury				Minor Phase Ground Ops PIC Age 64					64			
Following	Following a successful landing, the pilot inadvertently activated the canopy jettison lever while opening the											



#### Accident and Incident Summaries

mini nimbus canopy that resulted in damage to the forward hinge. Investigation identified the pilot experienced a lapse in concentration and used the canopy release technique relevant to the Club's ASK21, which requires the pilot to pull back both levers to open the canopy. In the ASK 21 the canopy opens upwards, whereas the mini nimbus canopy opens to the side. This incident is a good example of recency and primacy bias effects.

Date	17-May-2015	Regior	n NSWGA			SOAR Report Nbr				S-0537	
Level 1	Environment		Level	2	Wildli	fe		Level	3	Other Wildlife Events	
A/C Model 1 ASW 20F A/C Model 2											
Injury Nil Damage Nil Phase Landing PIC Age 64										64	
rate of de increasin	identified a kar escent, the pilot g hazard at this easures to clear	diverted airfield d	to a cro ue to th	oss-strip whe eir large nun	re he nbers	lande in adj	d safel acent f	y. Kang armlar	aroos id and	s have becou s scrub. The	me an e club has

Date	23-May-2015	Regior	۱	GQ		SOA	R Repo	ort Nbr		S-	0576	
Level 1	Operational		Level	2	Fligh	t		Level	3	Aircraft pr	eparation	
				Prepara	tion/N	laviga	ation					
A/C Mod	A/C Model 1 Astir CS Jeans A/C Model 2 N/A											
Injury	InjuryNilDamageNilPhaseGround OpsPIC Age22The aircraft was cleared for flight and then flown with an expired Maintenance Release. The low hours pilot,											
who had Expiry Da notes tha Defects a	aft was cleared f only recently be ite and cleared t at the first step in ire recorded whi lents, by finding	en traine he aircrat n the proo ch prevei	d to con ft for flig cess is t nt flight	nduct daily in ght when it v o check that . Remember	nspect was no the M , a goo	ions, long lainte od Da	omitte er airw enance ily Insp	d to ch orthy. Release ection	eck tł The <mark>L</mark> e is va	ne Maintena Daily Inspect Alid, and no	ance Release <u>or Handbook</u> Major	

Date	23-May-2015	Region	Region GQ			SOA	AR Repo	ort Nbr		S-	0540
Level 1	Operational	Level 2 Fuel			el Rela	ated		Level	3	Starvation	
A/C Mod	el 1	CE	SSNA	150E		A/C Model 2		2	ASK	-21	
Injury	Nil	Damage		Nil	Pha	se	Launc	h		PIC Age	30

Damage Pliase During the initial climb under aerotow and at about 300ft AGL, the tow plane momentarily lost power and the glider pilot, noticing something amiss, released. Both aircraft completed modified circuits with no further incident. The tow pilot, who had only recently obtained his towing endorsement, had conducted the tow plane's Daily Inspection in the morning and noted that the tanks were not full - about 65 litres of fuel was present. The aircraft was not refuelled as the pilot assessed that, due to the poor weather conditions, this fuel quantity would be sufficient for the small operation that had been planned for the day. However, as the morning progressed more gliders lined up on the grid and the pilot may have felt under pressure to continue to launch the gliders until refuelling became inevitable. Immediately prior to the final launch the tow pilot, who had been estimating his fuel burn rate, advised the ground crew that he would need to refuel after this flight. Unfortunately, the tow pilot had miscalculated his fuel burn rate and the aircraft had insufficient fuel on board. During launch the low fuel rate resulted in fuel flow being interrupted causing the engine to lose power until the nose was lowered, at which time fuel flow was restored. The glider pilot noticed something was amiss, released from tow and landed safely off a modified circuit. The tow pilot completed a 180 degree turn under power and landed on the reciprocal runway. The Club's tugmaster has raised awareness among the tow pilots of the need for proper fuel management, including fuel burn rates, and the tow pilot concerned will undergo further training. This is how many fuel related accidents develop.



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Through a combination of circumstances and a few non-optimal decisions, otherwise prudent pilots put themselves in harm's way. Tow pilots must remain acutely aware of the high rate of fuel consumption during aerotowing with the engine operating at full or very high power settings during the climb. A pilot used to a moderate fuel consumption at cruise settings may need some time to become accustomed to this. Pilots should keep track of how many tows they have done and refuel early rather than late. Trying to run the tank down as dry as you can before refuelling is the very opposite of good airmanship. GFA recommends pilots maintain a 30 minute fuel reserve.

Date	23-May-2015	Regior	۱	WAGA	SOAR Report Nbr					S-0543	
Level 1	Operational		Level 2	Fu	el Rel	ated		Level	3	Starvation	
A/C Mod	el 1		Piper PA	25-235		A/C	Model	2	DG-	1000S	
Injury Nil Damage Nil Phase Launch PIC Age 88											
released restart w revealed	a aerotow launch and conducted a ithout success a the engine stop se in judgement	an uneve nd made ped due t	ntful land a forced l to fuel sta	ing on the anding inte rvation wh	duty r o a pa ien thi	unwa ddocl e pilo	iy. The k witho t forgo	tow pil ut furtl t to cha	ot att her in ange t	empted an cident. Inve	engine stigation

Date	23-May-2015	Regior	۱	SAGA		SOA	R Repo	ort Nbr		S-0546		
Level 1	Operational		Level 2	Mi	scellar	neous		Level	3	Rope brea	k/Weak link	
										failure		
A/C Mod	el 1		ASK-21 A/C Model 2 N/A									
Injury	Nil											
During a	During a winch launch and at about 800ft AGL the 'weak link' broke. The pilot completed his launch failure											
	nd conducted a s			• ·								
a lower s	trength than rec	ommend	ed for th	e glider wa	s used	l. The	error o	occurre	d wh	en an inexp	erienced	
member of the launch crew did not fully understand how the 'weak link' system was operated. This incident												
was dealt with under the club's SMS and improved training practices have been adopted to ensure launch												
crew are aware and understand how the 'weak links' are fitted.												

Date	23-May-2015	Regior	1	SAGA		SOA	R Repo	ort Nbr		S-	0545
Level 1	Operational		Level 2	Airc	raft Co	ontro		Level	3	Incorrect configuration	
A/C Mod	el 1		Astir C	S 77		A/C	Model	2	N/A		
Injury	Nil	Dama	age	Nil	Pha	ise	Launc	h		PIC Age	46
aircraft's Investiga landing lo remedy t crew to c without r	winch launch an nose, pulled the tion revealed the ong, and while th he error was mis confirm his airbra realising that the type. This incide	release, e pilot's p e pilot cl sed whe kes were airbrake	closed the re take-o osed the n the pilo e locked, r s were no	e airbrakes ff check wa airbrakes h t, in respor nerely pusl t 'locked'.	, and as inte e did nding t hed th The pi	cond errupt not lo to a c ne air ilot w	ucted a ed by a ock the halleng brake h as rela	circuit a delay m. One ge from andle f	for a cause furth a me forwa nexpe	n uneventfu ed by anoth- ner opportu mber of the rd to confir rienced and	Il landing. er glider nity to e launch m 'closed' I had only 8
that pilots physically determine the airbrakes are locked by cycling the control and ensuring the overcentre lock has engaged.											

Date	24-May-2015	Region	VSA	SOAR Report Nbr	S-0542
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Level 1	Operational		Level 2	Airc	raft Co	ontro		Level	3	Control issues	
A/C Mod	el 1		Twin A	Astir		A/C	Model	2			
Injury	Nil	Dam	age	Nil	Pha	ase	In-Flig	ght		PIC Age	57
The aircr	aft was undergo	ing an ev	aluation f	light follow	/ing re	epairs	conse	quent c	of an o	earlier heav	y landing.
During fli	During flight a vibration was felt through the control column, which remained constant throughout the										
speed ra	speed range. A limited in-flight visual check of the wings and tailplane did not identify any issues. Apart from										
	the vibration, the aircraft handled well and an uneventful landing was made. Post flight inspection										
	ed that the cont			• .				-			• •
	lerances. During	-			-					-	
and abou	it 15cms from th	e aileron	. It was de	etermined	that tl	he bir	rd drop	pings c	reate	d a turbuler	nt airflow
	of the aileron; t	•		•			-				
The wing	surface was clea	aned and	another	flight was c	conduc	cted v	without	t incide	nt. Tł	nis incident l	nighlights
how fore	ign objects on w	ings, no i	matter ho	w insignific	cant tł	ney m	nay see	m, can	nega	tively affect	the flight
characte	characteristics of an aircraft.										

Date	24-May-2015	Regior	n	GQ		SOAR Report Nbr				S-0541		
Level 1	Operational		Level 2	Airc	raft C	ontro	ontrol		3	Incorrect of	configuration	
A/C Mod	el 1		Duo Discus T				Model	2				
InjuryNilDamageNilPhaseLaunchPIC Age60During the take-off roll the glider's airbrakes deployed. The experienced command pilot locked the airbrakes									60			
and the f	light continued v e airbrakes were ysically determin	without fu closed ar	urther in nd locke	cident. Inve d. When co	estigat nducti	ion d ng th	etermir e pre-fl	ned tha ight ch	t the ecklis	command p t it is impor	oilot did not tant that	

Date	24-May-2015	Regior	n 🛛	VSA		SOA	R Repo	ort Nbr		S-	0544								
Level 1	Technical		Level 2	Powerp	lant/P	ropu	lsion	Level	3	Engine fail	ure or								
										malfunctio	on								
A/C Mod	el 1		Piper PA	25-260		A/C	Model	2	AS-k	(13									
Injury Nil Damage Nil Phase Launch PIC Age 76																			
At about 500ft AGL with a glider on tow, the tow plane's engine began to run roughly. The tow pilot waved																			
the glider off and the glider pilot responded promptly. The tow pilot executed a 180 degree left-hand turn																			
and landed on the operational runway on a reciprocal heading. The engine continued to develop power and																			
the pilot	was able to taxi	clear of t	he runwa	ys. The glio	ling In	struc	tor too	k contr	ol fro	m the stude	ent flying the								
glider and	d also turned lef	t to posit	ion for a l	anding on	the cr	oss ri	unway,	comple	eting	a safe landii	ng without								
infringing	the operationa	l runway.	The tow	pilot advis	ed he	had e	xperie	nced di	fficult	ty starting th	ne engine								
earlier in	the day but that	the engi	ne had si	nce worke	d satis	facto	rily. He	found	no vi	sible eviden	ce of a								
	problem and started the aircraft without difficulty. He made short test flight and experienced no further																		
problems	. A subsequent	check by	a LAME d	etermined	one s	park	plug ha	d foule	d, wh	ich probabl	y led to the								
rough rui	nning engine.										problems. A subsequent check by a LAME determined one spark plug had fouled, which probably led to the rough running engine.								

Date	6-Jun-2015	Region		GQ		SOA	R Repo	ort Nbr		S-	0575
Level 1	Operational		Level 2		Fligh	t		Level	3	Aircraft pr	eparation
				Prepara	tion/N	laviga	ation				
A/C Mod	el 1		Astir CS	Jeans		A/C	Model	2	N/A	A	
Injury	Nil	Dama	ige	Nil	Pha	se	In-Flig	ght		PIC Age	66
The aircra	The aircraft was cleared for flight and then flown with an expired Maintenance Release. The low hours pilot										



#### Accident and Incident Summaries

was undertaking the Daily Inspection under supervision as part of his conversion to his first single-seat aircraft. Neither the pilot/inspector nor the supervising instructor noticed the Maintenance Release had expired. Most maintenance mistakes involve human factors, and stress and distraction often contribute to items being missed. The key is to take your time during the inspection, avoid distractions, and use the checklist to make sure you don't miss anything. Supervising instructors should also pay attention and ensure they are not distracted from the task.

Date	6-Jun-2015	Regior	۱	GQ		SOA	R Repo	ort Nbr		S-	0547
Level 1	Environment		Level	2	Wildli	fe		Level	3	Birdstrike	
A/C Mod	el 1	SZD-4	8-1 Jan	tar Standard	2	A/C	Model	2	N/A		
Injury	Injury Nil Damage				Minor Pha			ase Thermalling			72
While the	ermalling on a cr	oss-coun	try fligh	it, one of two	o eagle	es in t	he the	rmal su	Idden	ly changed	direction in
flight and	struck the stark	oard wir	gtip of	the glider. Af	fter de	eterm	ining h	is aircr	aft wa	as controllat	ole, the pilot
elected t	elected to continue the flight and later landed at the home airfield without further incident. Inspection of										
the airfra	the airframe revealed 3 small impressions underneath the starboard wing tip.										

Date	7-Jun-2015	Regior	1 I	GQ SOAR Report Nbr			S-	0548				
Level 1	Technical		Level	2 Powerp	lant/P	ropu	lsion	Level	3	Engine fail	ure or	
										malfunction		
A/C Model 1         Piper PA25         A/C Model 2         ASK-21												
Injury Nil Damage Nil Phase Launch PIC Age 62								62				
aircraft co reveal an maintena circuit bro	100ft AGL with a ompleted a safe y faults with the nce engineer su eakers, and rene sues have been	landing s engine a bsequent wed the	traight nd the tly clear cranksh	ahead on th aircraft was ned and tigh	e runv return tened	vay av ed to critica	vailable service al earth	e. A pos e witho n points	t-fligi ut fu , repl	nt inspection rther event. aced the fu	n did not A el pump	

Date	8-Jun-2015	Region	)	GQ		SOA	AR Repo	ort Nbr		S-	0549
Level 1	Operational		Level 2	Airc	Aircraft Control Level 3 Wheels up lan				landing		
A/C Mod	el 1		LS-1	S-1D A/C Model 2 N/A							
Injury	Nil	Nil Damage Minor Phase Landing PIC Age 51							51		
The pilot	The pilot is an experienced power pilot who started gliding 18 months ago. This was the pilot's first flight on										
type. Dur	type. During the latter part of the flight the pilot advised the duty instructor by radio that he could not lower										
	rcarriage and wa			•		-	•		-		
	e strip so as not t			•			-				
fuselage.	fuselage. Subsequent inspection of the glider revealed the undercarriage had been raised with such force as										
to sheer	off the stop mec	hanism a	nd lock tł	ne wheel in	side t	he fu	selage.	The pil	ot's C	FI noted thi	is was a case
of "first flight nerves and a heavy hand on unfamiliar controls".											

Date	20-Jun-2015	Regior	1	NSWGA		SOA	R Repo	ort Nbr		S-	0552	
Level 1	Operational		Level 2	Run	Runway Events		5	Level	3	Runway ex	cursion	
A/C Mod	el 1		SZD-	55-1		A/C	Model	2	N/A			
Injury	Nil	Dama	age	Nil	Pha	ise	Launc	h		PIC Age	67	
The pilot	was undertaking	g his seco	nd flight	: on type. Di	uring t	he in	itial gro	ound ru	in on	aerotow the	e port wing	
dropped	dropped and the wingtip caught in vegetation on the edge of the bitumen runway. The pilot immediately											



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released from tow as the aircraft departed the runway. Contributing factors include a lack of familiarity on type and a light quartering tailwind.

Date	28-Jun-2015	Regior	n	WAGA		SOAR F	Repo	rt Nbr		S-	0553
Level 1	Operational		Level 2	Airc	raft Co			Level	3	Wheels up	landing
A/C Mod	el 1		Astir C	S 77		A/C Mo	odel	2	N/A		
Injury Nil Damage Minor Phase Landing PIC Age 1						16					
undercar post-rele pilot did landing c was fitted Potential inattentid	rs pilot undertak riage. After relea ase check. After not configure the heck and did not d, it was not serv causal factors in on to routine che	ase from a while t e aircraft identify riceable. aclude lov ecks. The	a normal he pilot b for landir that the u The glider v experier inoperab	aerotow, t roke-off th ng. During undercarria landed sa nce, unfam e underca	he pilo ne fligh the do age wa fely ar niliarity rriage	ot retrac t and he wnwind is retrac id only s y with ai warning	cted eade d leg cted. suffe ircrat	the und d for th the pild While red scr ft type, s noted	dercat ne circ ot for an un atchin and and l as a	rriage as pa cuit joining got to carry idercarriage ng to the ge anxiety resu minor defe	rt of his area. The out the pre- warning cloat. ulting in ct in the
been serv	Maintenance Release but was not brought to the attention of the Club's airworthiness inspectors. Had this been serviceable the pilot may have been alerted to the undercarriage being retracted. <u>Operational Safety</u> <u>Bulletin 01/14</u> provides the following advice:										
	•		-								

"Since landing mishaps usually occur due to poor workload management, it is important to get some of the tasks out of the way early and prepare for landing by:

- Making sure the straps are tight and deciding on a suitable approach speed.
- In gliders so equipped, dump any water ballast, lower the undercarriage and set the flaps, trimming to an appropriate speed for the downwind leg.
- Make sure the radio is on the correct frequency, that volume and squelch are correctly set, and that the microphone is positioned for best performance. "This bulletin also makes the comment:

"Caution: The pre-landing check (refer MOSP 2, Appendix 1) is a check and not an action list. The check should verify the undercarriage lever is matched to the lowered position on the placard, that flaps are set as required, and that approach speed and trim has been set."

Date	29-Jun-2015	Regior	۱		NSWGA		SOAI	R Repc	ort Nbr		S	-0554
Level 1	Operational		Leve	el 2	Misc	cellan	eous		Level	3	Rope/Ring	gs Airframe
			Strike									
A/C Mod	el 1 DG-1000S A/C Model 2 Piper PA-25-235							5				
Injury	Nil	Dam	age	Su	bstantial	Pha	se	Launc	h		PIC Age	18
At about	1200ft AGL whil	e underta	akingi	initia	al aero-tow	train	ing th	e stud	ent pilo	ot flev	v the glider	out of
station. T	he Level 1 Instru	uctor assu	umed	cont	rol but dur	ing th	e reco	overy t	o the r	norma	al low-tow	position the
TOST we	OST weak-link at the tow plane broke. The rope fell across the port wing of the glider and the remains of											
the weak	-link impacted t	he lower	wing	surfa	ace, punchii	ng a 3	0mm	hole.	The Ins	truct	or released	the rope
over a ru	ral area and it fe	ll away c	leanly	. Bo	th the tow p	plane	and g	ilder r	eturne	d to t	he airfield	without
further in	ncident, and the	glider wa	s take	en ot	ut of service	e for r	epair.	. Inves	tigatior	n by tl	he Club CFI	identified
	ent pilot, who wa			-								•
weak link	in use was too	light for t	he gli	der a	and tow pla	ine co	mbin	ation.	The lov	v time	e Instructor	r was also late
	ying and reactin	-						-	•		-	
	r's Handbook sta											
-	in their training	-			-			-				-
	ctor should be tr											
	petence in smoo									•		
student s	hould have som	e idea of .	ANTIC	CIPAT	TION in the	use o	f the o	contro	ls, othe	rwise	learning to	o aerotow will



#### Accident and Incident Summaries

*be just that little bit harder."* Guidance on the selection, application, safety and testing of glider weak-links can be found in <u>Operations Advice Notice (OAN) 01/13</u>.



Date	4-Jul-2015	Regior	۱		GQ		SOA	R Repo	ort Nbr		S-	0555
Level 1	Airspace		Leve	el 2	Aircra	ft Sep	aratio	on	Level	3	Aircraft Se	paration
						Issues						
A/C Mod	Model 1 DG-1000S A/C Model 2 Piper PA-25-235					5						
Injury	jury Nil Damage Nil				Pha	nase Landing				PIC Age	55	
slight tail elected t glider wa	perations were h wind componen o land into wind s on base leg the perational runwa	t later in on runw e pilots h	the da ay 27 eard a	ay. The (grass l a call fro	glider p left), on om the f	oilot w a reci tug pil	as un proca ot ad	idergoi al head vising l	ng a pro ing to t ne was	e-solo he op lining	o check fligh perations. W gup for a gli	it and /hile the der launch



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plane, took control and manoeuvred to land on runway 27, grass right to provide separation from the tow plane. The student pilot completed a successful landing. The command pilot estimated separation to be 1000 metres. Incidents of this nature are not uncommon in gliding, where operations will sometimes continue with a slight tailwind component rather than go through the inconvenience of changing runways. While gliders and tow planes can cope with slight tailwind operations, take-off or landing downwind is not recommended as a standard procedure. Pilots should use the runway most closely aligned into wind wherever possible. Pilots must also operate within the limitations prescribed in the Aircraft Flight Manual (AFM). Civil Aviation Regulations state that the pilot must *"take off or land into the wind if, at the time of the take-off or landing it is practicable to take off or land into the wind"* (CAR 166A(2)(h)).

Date	4-Jul-2015	Region		GQ		SOA	R Repo	ort Nbr		S-	0559
Level 1	Operational		Level 2	Airc	raft C	ontro	Ī	Level	3	Incorrect of	configuration
A/C Mod	el 1		Discus	s bT		A/C Model 2 N/A					
Injury Nil Damage Nil F					Pha	hase Launch				PIC Age	80
either a r released that the j	s were observed adio alert or to t at the usual laur pilot lacked curre ence of ageing, n	he rudde ich height ency in en	r waggle :. Investig nergency	given by th gation reve procedure	ne tow aled t	<sup>,</sup> pilot he gli	. The to der rad	ow proe lio was	ceede not f	ed and the g unctioning p	lider pilot properly and

	ıl-2015	Region	NSWGA		SOA	R Repo	ort Nbr		S-0556		
Level 1 Ope	erational	Le	vel 2	Run	way E	vents	5	Level	3	Runway in	cursion
A/C Model 1		Pip	er PA2	25-235		A/C	Model	2	Pipe	er PA-28R-20	00
Injury I	Nil	Damage		Nil	Pha	ise	Landi	ng		PIC Age	59
Following the s	successful la	unch of a g	ider, t	he tow pile	ot join	ed th	ie circu	it for a	landi	ng on the m	ain runway
of a major regi	ional airport	. Simultane	ously,	a Piper Arı	row er	ntere	d the m	nain rur	nway	and comme	nced to
back-track to t	the take-off	point. Both	pilots	broadcast	their i	nten	tions oi	n the C	TAF. 1	The tow pilo	t proceeded
to land short o	on the main	runway whi	e it w	as occupie	d, mu	ch to	the ire	of the	back-	tracking Pip	er pilot.
While it is not	While it is not unusual for pilots to maintain their own separation at non-controlled aerodromes using look-										
out and clear r	radio commi	unications, i	n this	case the to	ow pilo	ot had	d not a	dequat	ely co	ommunicate	d his
intentions to t	he Piper pilo	ot in order t	o safel	ly manage	separa	ation	and ma	aintain	situa	tional aware	eness. CAR
166A(b) requir	res pilots ens	sure that th	eir aire	craft does	not ca	use a	dange	r to oth	ner ai	rcraft that a	re being
operated on th	he manoeuv	ring area of	or in	the vicinity	y of, tł	ne ae	rodrom	ne. CAA	P 166	5-1(3) 6.6.6 s	states:
"When on the	final leg, pile	ots should c	onfirm	n that the r	unway	y is, a	nd rem	nains, ci	lear f	or landing".	AIP ENR 1.1
49 states "An a	aircraft mus	t not contin	ue its d	approach t	o land	l beyc	ond the	thresh	old oj	f the runway	/ until: (a) a
preceding dep	arting aircra	ift using the	same	runway is	airbor	rne ai	nd: (1) l	has con	nmen	ced a turn; o	or (2) is
beyond the po	int on the ru	inway at wh	ich th	e landing d	iircraf	t cou	ld be ex	pected	to co	omplete its l	anding roll
and there is su	ıfficient dista	ance to man	oeuvr	e safely in	the ev	ent o	f a mis	sed app	proac	h." The tow	pilot was
counselled by	the Duty Ins	tructor and	reliev	ed from to	wing	dutie	s.				

Date	7-Jul-2015	Region		GQ		SOA	R Repo	ort Nbr		S-	0560
Level 1	Airspace		Level 2	Airspac	e Infri	ngem	nent	Level	3	Airspace Ir	nfringement
A/C Mod	el 1	SZ	SZD-50-3 Puchacz A/C Model 2 N/A								
Injury	Nil	Damag	ge	Nil	Pha	ise	In-Flig	sht		PIC Age	73
During ar	n instructional fli	ght the air	craft bri	efly entere	ed con	trolle	d airsp	ace. Inv	/estig	ation revea	led the
experient	experienced instructor did not maintain adequate situational awareness and allowed the student to drift										



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into controlled airspace while thermalling. The Instructor has been counselled and will participate in remedial training. Violations of controlled airspace can be avoided by remaining situationally aware, ensuring you have current airspace charts, and by thoroughly familiarising yourself with local airspace and other aeronautical issues. AIP ENR 1.1 (19.12) 'Avoiding Controlled Airspace' has this to say: *"For aircraft operating in close proximity to an airspace boundary where there is a risk of an airspace infringement, the pilot in command should consider obtaining a clearance to enter the airspace or altering track to remain well clear."* 

Date	9-Jul-2015	Region	NSWGA		SOA	R Repo	ort Nbr		S-	0557
Level 1	Operational	Lev	el 2 Rur	nway E	vents	5	Level	3	Other Run	way Events
A/C Mod	lel 1	Cessna 4	41 Conquest II		A/C	Mode	2	N/A		
Injury	Nil	Damage	Nil	Pha	se	Landi	ng		PIC Age	

A corporate owned Cessna Conquest twin engined aircraft did a low pass of the gliding winch operation and then conducted an unauthorised landing. Radio calls on the appropriate frequencies were not made. In addition, the airfield is not suitable for heavy aircraft and the council prohibits powered aircraft operations. The company's Chief Pilot has advised the pilot will be unavailable for flight duties pending his investigation. The gliding airfield is located in busy airspace and there is a significant potential for conflict between transiting powered aircraft and gliders. The GFA AA&A Officer has worked with the Gliding Club CFI to have the airfield included in ERSA and for AirServices to identify it as a CTAF on the Sydney VTC and Newcastle VNC. The Club is also pursuing a proposal to have the boundaries of a proposed Broadcast Area adjusted to include their airfield.



Date	12-Jul-2015	Region		SAGA		SOA	R Repo	ort Nbr		S-0724	
Level 1	Operational		Level 2	Airc	raft Co	ontro		Level	3	Control iss	ues
A/C Mod	el 1	F	Piper PA-25-235			A/C Model 2			N/A	i.	
Injury	Nil	Dama	ige	Minor Ph		ase Landing			PIC Age	76	
On returning to land after completing a glider tow, the tow plane was observed to land approximately 100m											
further up from the glider launch position. The wind at the time was a cross wind from the left with a cross											



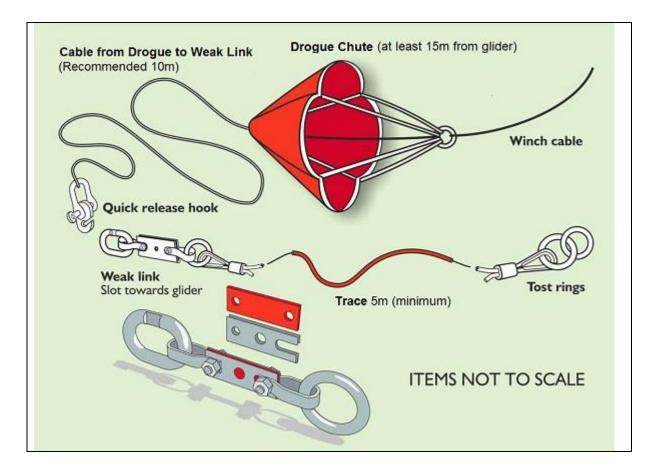
#### Accident and Incident Summaries

wind component estimated at 4 Knots. The tow plane was observed to touch the starboard wing tip on the ground and a small plume of dust was observed from the launch point. The tug returned to the launch point and the wing tip was inspected with no damage apparent externally, however a subsequent inspection revealed some minor damage to a wing rib. Possible causal factors include pilot fatigue and a cross wind gust.

Date	13-Jul-2015	Regior	1	SAGA		SOA	AR Repo	ort Nbr		S-	0723	
Level 1	Operational		Level 2	Airc	raft Co	ontro	Ĩ	Level	3	Incorrect of	onfiguration	
A/C Mod	el 1		DG-1(	)00S		A/C	Model	2	N/A	A		
Injury	Nil	Dama	age	Nil Phase Landing					PIC Age	72		
the debr the cano was resta inspected has the r the day w	impletion of the field iefing the instruc py detached from ored to the frame d for normal ope normal canopy op when the instruct ation of the cano	tor opera n the hing and the ration. The pening lev cor transf	ated the o ges on th jettison ne instruc vers on b erred to	canopy unlo e aircraft. T lever return ctor had pre oth sides o	ock lev The ca ned to evious f the c	er (L nopy the f ly flo ockp	HS) and was in flight no wn in a it. The	d the ca spected ormal p n ASK- occurre	nopy d and oositic 21 ea ence f	jettison lev no damage on. The canc rlier in the c light occurre	er (RHS) and was found, opy was then lay, which ed later in	

Date	18-Jul-2015     Region     NSWGA     SOAR Report Nbr       Operational     Level 2     Miscellaneous     Level 3     F					S-	0561				
Level 1	Operational		Level 2	Mis	scellane	eous		Level	3	Rope/Rings Airframe	
										Strike	
A/C Mod	A/C Model 1 Grob G 103 Twin II A/C Model 2 N/A										
Injury	Nil	Dama	age	Nil	Phas	se	Launc	h		PIC Age	38
The expe	The experienced pilot was conducting a private passenger flight. The						The glic	ler was	laun	ched by win	ch into a
light head	light headwind. The pilot noted the ground roll to be longer than usual but speed eventually increased and								reased and		
the glide	the glider transitioned into the climb. Just after transition into the full climb and at approximately 400ft AGL										
the pilot	noted a sudden	loss of po	wer in t	he winch, ai	nd he ir	mme	diately	lower	ed the	e nose and r	eleased the
cable. On	ice the pilot had	establish	ed a saf	e speed, he	openeo	d the	e airbra	kes to l	land s	straight ahea	ad on the
available	runway. In the p	process of	lowerir	ng the nose,	the glio	der f	lew un	der the	depl	oyed drogu	e chute and
the dyne	ema rope drape	d across t	he right	wing just ou	utboard	d of t	he airt	orake. N	lo da	mage occur	red and the
glider lan	ded safely with	out furthe	r incide	nt. Investiga	tion de	etern	nined t	hat the	auto	matic trans	mission in
the winch	n failed and, that	the drog	ue chut	e may have	been to	oo la	rge for	the lig	htwei	ight dyneem	na rope
thereby slowing its rate of descent. It was also determined that the trace between the drogue chute and the											
rings was	almost two met	res short	er than	the GFA mir	nimum.	The	club w	vill ensu	ire th	e cable is se	t-up in
accordan	ce with the GFA	Winch La	unch M	anual and w	ill use a	a sm	aller dı	ogue c	hute	that will allo	ow the rope
to fall aw	ay much quicker										





Date	25-Jul-2015	Regior	۱	SAGA		SOA	R Repo	ort Nbr		S-	0562
Level 1	Operational		Level	2 Crew a	nd Cak	oin Sa	fety	Level	3	Other Crev	w and Cabin
										Safety Issu	ies
A/C Mod	el 1	SF25D A/C Model 2 N/A									
Injury	Nil								PIC Age	64	
-	•	Safety Audit it was found that the pilot had not completed an annual flight review elve months. The pilot was counselled and informed not to fly in command of a glider									
	ntil an AFR was satisfactorily completed. The pilot understood the seriousness of the breach of GFA candards and statutory requirements and undertook to ensure it does not happen again. The pilot										
solo pilot	Illy completed an to undergo an onth in which it i	annual co	ompete	ency check, o	r Annı	ual Fli	ght Rev	view (A	FR). A	n AFR is val	id to the end
months before it is due and the original renewal month remains unchanged. This means a review remains valid, even if completed early. For example, if the AFR is due to expire at the end of August 2015 but is undertaken in June 2015, the next AFR will be due at the end of August 2016. A pilot can defer their review beyond the 12 month period but cannot exercise command privileges until they have completed their AFR. Current guidance on the AFR is in <u>Operations Advice Notice 02/12</u> ."											

Date	25-Jul-2015	Region		SAGA	SOAR Repo	ort Nbr	S-0563
Level 1	Operational	I	Level 2	Crew and Cat	oin Safety	Level 3	Other Crew and Cabin Safety Issues



A/C Model 1		S	F25D		A/C	Model 2	N/A			
Injury	Nil	Damage	Nil	Pha	se	In-Flight		PIC Age	53	
During an Op	perational Saf	ety Audit it wa	s found that t	he pilc	ot had	d not complete	ed an	annual fligh	nt review	
within the p	revious twelve	e months. The	pilot was cour	nselled	l and	informed not	to fly	in comman	d of a glider	
until an AFR	ntil an AFR was satisfactorily completed. The pilot understood the seriousness of the breach of GFA									
standards ar	nd statutory re	equirements and undertook to ensure it does not happen again. The pilot								
successfully	completed an	AFR the following day. GFA Operational Regulations (paragraph 3.3.5) requires all								
solo pilots to	o undergo an a	annual compet	ency check, o	r Annı	ial Fli	ght Review (A	FR). A	n AFR is val	id to the end	
of the month	n in which it is	done, 12 mon	ths later. A fli	ght rev	view	can be comple	eted a	iny time in t	he three	
months befo	ore it is due ar	nd the original	renewal mont	h rem	ains ı	unchanged. Th	nis me	ans a reviev	w remains	
valid, even if	completed e	ed early. For example, if the AFR is due to expire at the end of August 2015 but is								
undertaken	in June 2015,	the next AFR w	vill be due at t	he end	d of A	ugust 2016. A	pilot	can defer t	heir review	
beyond the 2	12 month per	iod but cannot	exercise com	mand	privil	eges until the	y have	e completed	their AFR.	
Current guid	Current guidance on the AFR is in Operations Advice Notice 02/12."									

Date	7-Aug-2015     Region     GQ     SOAR Report Nbr     S-0578       Airspace     Level 2     Aircraft Separation     Level 3     Near collision						0578				
Level 1	Airspace		Level 2	Aircra	ift Sep	arati	on	Level	3	Near collis	ion
A/C Mod	el 1		IS-3	0		A/C	Model	2	BEE	CH AIRCRAF	T CORP A45
Injury	Nil	Dama	ge	Nil	Pha	ise	Thern	nalling		PIC Age	71
The gliding instructor was conducting a conversion flight with a solo pilot and was on the controls. While											
thermalling at about 2000ft AGL the instructor noticed two "War Bird" aircraft flying in formation toward											
the glider. The lead aircraft flew behind the glider but the following aircraft maintained a heading towards											
the glide	the glider. The gliding instructor rapidly reduced altitude to maintain separation and, once the two aircraft										
were clea	ar of the glider, h	anded ov	er contro	ol to the pil	ot un	der in	structi	on. The	e glide	er joined ciro	cuit and
landed w	ithout further in	cident. Th	ie pilot o	f the follow	ving ai	rcraf	t was s	poken t	o and	d confirmed	he had not
seen the	glider as he was	focused o	on maint	aining form	ation	with	the lea	d aircra	aft. Th	ne gliding clu	ub and War-
Bird Flyin	ig Group are coll	aborating	to devel	op mutuall	у ассе	eptab	le oper	ating g	uideli	nes to preve	ent
recurren	ce. Formation fly	ing is inhe	erently d	angerous a	nd red	quires	s prope	r traini	ng an	d endorsem	ient. To
minimise	the risk, pilots n	nust exerc	cise disci	oline and fo	ollow	the cl	hain of	comma	and w	vithin the fo	rmation and,
in the cas	se of a two aircra	ift formati	ion, the	ead and wi	ingma	n hav	/e distir	nct role	s and	responsibil	ities to
ensure th	ne safety and suc	cess of th	e flight.	Pilots flying	g in fo	rmati	on who	o are no	ot pro	perly traine	d and
endorsed pose an unacceptable risk to other airspace users.											





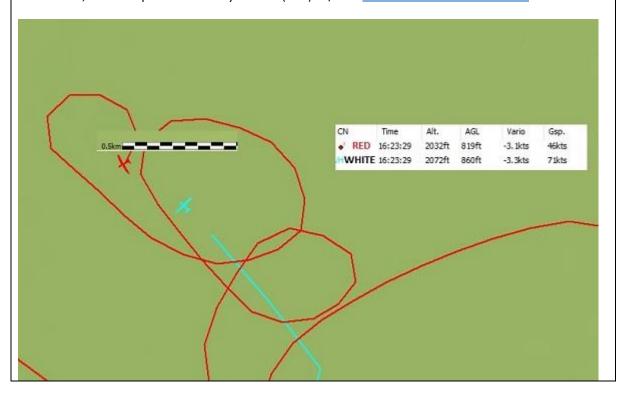
Date	8-Aug-2015	Regior	۱	SAGA		SOA	R Repo	ort Nbr		S-0565	
Level 1	Operational		Leve	el 2	Fligh	t		Level	3	Aircraft pr	eparation
				Prepara	aration/Navigation						
A/C Mod	del 1 DG-1000S A/C Model 2 N						N/A				
Injury	Nil	Dama	age	Nil	Phase Ground Ops					PIC Age	61
An aircra	ft was released t	o service	with	an expired ma	intena	ance r	elease	. The in	spect	or undertak	king the Daily
Inspectio	n misread the ex	kpiry date	e. The	inspector advi	ised th	nat it v	was un	usual fo	or glio	ders to be le	ft in the
hangar w	hangar with an expired maintenance release and this led him to see what he expected to see, and not what										
was actua	ally written. In p	sychology	y and	cognitive scier	nce thi	s is kr	nown a	s confi	rmati	on bias, whi	ch is the
tendency	to interpret info	ormation	in a w	vay that confir	ms on	e's pr	econce	eptions.			

Date	8-Aug-2015	Regior	1	GQ		SOA	R Repo	ort Nbr		S-	0564
Level 1	Airspace		Level 2	Aircra	aft Sep	arati	on	Level	3	Near collis	ion
A/C Mod	el 1		Duo D	iscus		A/C	Model	2	ASK	-21	
Injury	Nil	Dama	age	Nil	Pha	ise	In-Flig	ght		PIC Age	78
While an ASK21 was thermalling in the mid-downwind leg of the aerodrome at about 900ft AGL, a Duo											
Discus gave a radio call and joined circuit upwind at a similar height. The ASK21 pilot did not hear the radio											
call and t	he pilot of the D	uo Discus	did not	initially sigl	ht the	therr	nalling	glider a	as he	was flying ir	nto the sun.
At the mi	d-downwind pos	sition the	ASK21 p	assed acros	ss the	nose	of the	Duo Di	scus f	rom right to	left some
300 metr	es ahead and at	a similar	height, s	tartling the	pilot	of the	e Duo D	Discus. <sup>-</sup>	The A	SK21 pilot t	hen sighted
the Duo I	the Duo Discus as it overtook his aircraft during the thermalling turn, passing approximately 300 metres to										
his right a	and at a similar h	eight. Th	e ASK21	pilot imme	diatel	y disc	ontinu	ed the <sup>·</sup>	turn a	and joined d	ownwind
behind th	ne Duo Discus. Bo	oth aircra	ft subsed	quently lan	ded w	ithou	t furthe	er incid	ent. N	Nost circuit	collisions



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occur on downwind or on final approach. There are many distractions during this time, including configuring the aircraft, completing checklists, setting equipment and communicating. Therefore, thermalling on the live side of a common circuit area is fraught with danger and it is essential that situational awareness is maintained through good lookout, scanning techniques and by appropriate use of radio. Be aware of the likely traffic patterns and target your scan to the areas of potential hazard. This was a very close call that should not have occurred, as local club rules prohibit thermalling in the circuit area below 1500ft. For further information, refer to Operational Safety Bulletin (OSB) 02/14 - "See-and-Avoid for Glider Pilots".



Date	15-Aug-2015	Region	1	GQ		SOA	R Repo	ort Nbr		S-	0571
Level 1	Operational		Level 2	A	Airfrar	ne		Level	3	Doors/Can	iopies
A/C Mod	el 1		SZD-51-:	L Junior		A/C	Model	2	N/A		
Injury	Minor	Dama	age S	ubstantial	Pha	ise	Launc	:h		PIC Age	67
The canopy Perspex detached from its frame at about 500ft AGL during						a winch	n laun	ch and shat	tered		
against the tailplane. The pilot released the cable shortly thereafter at a height of 800ft AGL and assessed his									assessed his		
options. The pilot commenced a descending turn with the intention to position for a landing on the duty											
runway but modified the decision due to the glider's high rate of descent and positioned for a downwind											
landing o	n the cross-strip	. The pilo	t landed	with a high	er tha	n nor	rmal aiı	rspeed	and r	olled across	the duty
runway,	whereupon the p	oilot taxie	d clear.	Examinatior	n reve	aled t	that see	ctions c	of the	Perspex ha	d cleanly
separate	d from the frame	e, with lit	tle to no	glue attach	ed to	the P	erspex	. The sa	ilplar	ne was man	ufactured in
	the canopy was	-		•							
	d 7,268 landings.					•					
-	ched - most of th	-				•	-	-	-		•
	Certificate (TC)							•			
	d Airworthiness				•			-	-		•
the glue bond between the canopy Perspex and frame and, to repair and report any defects found.											



Date	16-Aug-2015						S-	0567			
Level 1	Operational		Level 2	Mis	cellan	eous		Level	3	Rope/Ring	s Airframe
										Strike	
A/C Mod								er PA-25-26	)		
Injury	Nil	Dama	age	Minor	Pha	se	Launc	h		PIC Age	30
The glide	glider was being launched by a Pawnee fitted with a TOST retractable tow rope. As the							As the tow	plane was		
rolling fo	ling forward to lay-out out the rope, the rope became prematurely tight and the glider started to roll										
forward.	rward. The wingtip runner interpreted the tight rope to indicate the rope had reached its full travel and										
signalled	"all out". Unfort	unately c	only half t	he length o	of the	rope	had de	ployed.	. As th	ne tow plan	e
accelerat	ed down the rur	way, the	rope con	tinued to la	ay out	. The	rope b	ecame	tight	while the g	lider was
	ationary and bro						-			•	•
and hit th	ne glider's canop	y and wra	apped itse	elf around t	the sta	arboa	rd win	g, leaviı	ng mi	nor scratch	es. Both
	ame to a safe sto	•	-					•		-	-
coupled v	with the light we	ight of th	e glider b	eing towed	l, allo	wed t	the rop	e to sto	op dej	ploying and	move the
glider for	ward some 10 m	netres, giv	/ing the ir	npression t	hat th	ne roj	be was	taut. Tl	he wi	ngtip runne	r was
	nced and did no				• •	•		-	-	-	•
towing a	rrangement shou	uld hold t	he wheel	brake on w	/hen t	aking	g up sla	ck to le	ssen	the chance	of this type
of incide	nt occurring.										

Date	16-Aug-2015	Regior	1	VSA		SOA	R Repo	ort Nbr		S-	0581
Level 1	Operational		Level 2	Mis	scellar	neous		Level	3	Rope brea	k/Weak link
										failure	
A/C Mod	el 1								)		
Injury	Nil         Damage         Nil         Phase         Launch         PIC Age							68			
The com	mand pilot was u	pilot was undertaking his first solo flight for the day after two successful check flights. At							ghts. At		
about 40	Oft AGL and just	AGL and just as the towing combination neared the upwind runway boundary the weak link									
broke. Th	The command pilot immediately recognised the tow line had departed, turned to starboard (into										
wind) an	d completed a 27	0 degree	e turn fo	r a downwir	nd lan	ding o	on the o	cross-st	rip. V	Vhen the gli	der touched
down the	e pilot had difficu	Ity maint	taining d	irection due	e to th	e cro	sswind	compo	nent	and high gr	ound speed
but comp	pleted the landin	g withou <sup>.</sup>	t further	incident. Th	he rop	e wa	s still at	tached	l to th	ne glider. Inv	estigation
revealed	the weak link, w	hich was	made fr	om 10mm p	olypr	opyle	ne rop	e, had o	deteri	iorated due	to
weatheri	ng and was unde	erstrengtl	n. The pi	lot mention	ed po	st-flig	ght that	he wa	s revi	ewing his er	mergency
landing o	landing options just prior to the rope break and so was well prepared for when it happened. He was also										
very app	reciative of the e	mergenc	y trainin	g he receive	ed fror	n his	instruc	tors. Tł	nis wa	as a good ou	itcome and
reinforce	s the importance	e of havir	ig an effe	ective plan t	to dea	l with	n abnor	mal oc	currei	nces during	the launch.

Date	16-Aug-2015	Regior	1	VSA		SOA	AR Repo	ort Nbr		S-	0582
Level 1	Operational		Level 2	Airc	raft C	ontro	Ĩ	Level	3	Pilot Induc	ed
										Oscillation	S
A/C Mod	el 1	C	DG-500 Elan Orion			A/C	Model	2			
Injury	Nil	Dama	Damage Nil Phase Landing PIC Age 68								
The recei	The recently solo command pilot was on downwind leg when he received a request from a much lower										
glider to	glider to extend his circuit and allow the lower glider to land ahead of him. The other glider landed grass										
right so t	he command pile	ot elected	d to land	alongside o	on the	mair	ı bitum	en runv	way. 1	The commar	nd pilot did
not roun	d-out properly, b	ounced t	he landi:	ng and over	corre	cted 1	the reco	overy. <sup>-</sup>	The ai	ircraft exper	ienced a
series of	series of pilot induced oscillations (PIOs) before coming to rest with its undercarriage doors damaged. The										
	pilot will undergo some further training before flying solo. Causal factors include low experience, incorrect										
landing technique and over controlling glider in pitch during flare and hold off prior to ground impact. To											



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avoid the PIO, pilots should always aim to touch down with minimum energy, in a two-point attitude whereby the tail wheel and main wheel touch simultaneously. To reduce ballooning during the flare, stabilise the glider at an altitude of 3 or 4 feet, and then begin the flare anew. Do not try to force the nose of the glider down onto the runway.

Date	16-Aug-2015	Regior	1 I	VSA		SOA	AR Repo	ort Nbr		S-	0568
Level 1	Airspace		Level 2	Aircra	aft Sep	arati	on	Level	3	Near collision	
A/C Mod	el 1	9	ZD-50-3	Puchacz		A/C	: Model	2	Unk	nown	
Injury	Nil	Dama	age	Nil	Pha	ise	In-Flig	ght		PIC Age 21	
While the	e glider was on la	ate down	wind, a p	owered air	craft o	comm	nenced	a pract	ice gl	ide approad	h to the
runway a	runway and cut in front of the glider at a 45 degree angle. The glider pilot took avoiding action and tried to										
contact t	contact the power pilot to no avail. Both aircraft landed safely.										

Date	16-Aug-2015	1	NSWGA		SOAR Report		ort Nbr		S-	0570	
Level 1	Operational		Level 2	Mis	scellar	eous		Level	3	Rope brea failure	k/Weak link
A/C Mod	el 1	9	SZD-50-3	Puchacz		A/C	Model	2	Pipe	er PA-25-235	5
Injury	Nil	Dam	age	Nil	Pha	ise	In-Flig	sht		PIC Age	58
the slipst instructo asked the pilot, beli just as th manoeuw airfield an control re outside t slipstrear communi tension a identified	Annual Flight F ream - the exerce r assessed he was e pilot under che ieving the exerce e glider was bei rring caused the esulting in the b he slipstream, p ication between nd, on completi the Club was u yed to higher broches.	cise was p as not suf eck to mo ise was fin ng manoe rope to t rope over alancing o ausing at out the t the glide on, the tu sing weak	ore-brief ficiently ve to the hished, c euvred ba ighten au r the airf of forces each cor ask. The r and tug pilot s c links wi	ed with the low when in lower left ommenced ack into line ad the weak eld bounda on the glide ner under o exercise is g. The exerci- nould be ad th a relative	tow p n the t and th a shal a ster c link t ary fen er whil contro to be c cise mu lvised ely low	ilot. T wo b en re low k n. A k o bre ce. B st on l, and comp ust be that t y brea	The pilo ottom sume t eft turr arge bc ak. The oxing tl tow. T I taking leted u e perfor the exe aking st	t comp comers he norn to hea w deve pilot to he slips he aim tilising med w rcise is rain for	leted of the mal to ad un- elope urneo trean is to nalles good chile r comp the a	the manoe be "box". The ow position. der the near d, and subse d back towar n is an exerce perform a se t route outs effective naintaining oleted. Invest aircraft bein	uvre but his e instructor . The tow rest cloud equent rds the cise in quare box ide the tow rope stigation also g used and

Date	18-Aug-2015	Regior	n	NSWGA		SOA	AR Repo	ort Nbr		S-	0572	
Level 1	Operational		Level 2	Fire Fur	nes ar	nd Sm	noke	Level	3	Smoke		
A/C Mod	el 1		ASK	·21		A/C	Model	2	N/A			
Injury Nil Damage Minor Phase Ground Ops PIC Age 57								57				
The aircraft was moved outside the hangar to provide better lighting and access to tyre valves during the												
	daily inspection. The aircraft was parked facing north with both canopies open. A member noticed smoke coming from the headrest in the rear cockpit, caused by the canopy focusing the sun's rays. This is a known											
-			•		•			•		•		
	h upwardly hinge	-					-	-		-		
	h of time. The In	•						-		•		
	canopies open for too long. The CFI has sent a reminder of this hazard to all club members stressing the											
importan	importance of not leaving the canopy open longer than necessary and of using a canopy cover when the											
glider is ι	inattended.											





Date	22-Aug-2015	Regior	1 I	VSA		SOA	R Repo	ort Nbr		S-	0579
Level 1	Operational		Level 2	Airc	raft Co	ontro	_	Level	3	Hard landi	ng
A/C Mod	el 1		Zephy	rus		A/C	Model	2	N/A		
Injury	Nil	Dama	age	Nil	Pha	ise	Landi	ng		PIC Age	62
The pilot approach the glider inspectio practice i for some before us	was practicing for without using a r continued to de n of the glider re n sideslipping, an time should first sing it as a landin	or his anr irbrakes. escend ar evealed n nd left re c explore g approa	nual flight The sides Id landed o damage covery to the sides ch contro	review and lip was dis heavily on e. The pilot normal flig lipping cha l technique	d elec contir the n was r ght to racter e. Wh	ted to nued nain v elativ o late istics en sic	o test h at appr wheel a vely ine Pilots of glid deslippi	is skills oximat nd cam xperier who ha ers the ng a he	ely 30 ne qui nced c ave n y fly i eavy g	erforming a D ft from the ickly to a sto on type, was ot sideslipp n safe circur ;lider pilots	sideslip e ground but op. An s out of ed an aircraft mstances should
commene intervene	ce the recovery a es.	at a heigh	it sufficiei	nt to overc	ome t	he ef	fect of	inertia	befor	e the groun	d

Date	22-Aug-2015	Regior	1	WAGA		SOA	AR Repo	ort Nbr		S-	0569
Level 1	Operational		Level 2	Airc	raft Co	ontro		Level	3	Wheels up	landing
A/C Mod	el 1	Pilatus B4-PC11 A/C Model 2 N/A									
Injury	Nil	Dama	Damage Minor Phase Landing P				PIC Age	24			
The low h	nour's pilot, on h	is fifth fli	ght on t	/pe, lowere	d the ι	undei	rcarriag	e in cir	cuit b	out did not lo	ock it. Upon
touchdow	touchdown, the undercarriage retracted and the glider came to rest on its lower fuselage, causing										
minor da	minor damage. The Pilatus undercarriage relies on an over-centre locking mechanism, and the pilot must										



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push the undercarriage lever fully forward and rotate the handle so that it is flush with the cockpit wall to ensure the lock is engaged. If the lever is not fully forward, the undercarriage can stick 'dead centre' and will retract when jolted, such as on landing. Contributing factors include doing a pre-landing 'action' list rather than a 'check' list, and the pilot's lack of familiarity with retractable undercarriages (completed most of his training in aircraft with a fixed undercarriage).

Date	29-Aug-2015	Region		GQ		SOA	R Repo	ort Nbr		S-	0577
Level 1	Operational	L	evel 2	Airc	raft Co	ontro		Level	3	Hard landi	ng
A/C Mod	el 1		ASK-	21		A/C	Model	2	N/A	1	
Injury	Nil	Damag	ć	Minor	Pha	se	Launc	h		PIC Age	62
The stude	ent was a very ex	perienced	nelicop	ter pilot w	ho wa	s unc	lergoin	g traini	ng in	launch eme	rgencies.
Following	g an earlier well-	executed lo	w level	release ar	nd moo	dified	circuit	, the st	uden	t was again	briefed
	inch emergencie		•	•							-
	airspeed. The in							-	-		-
	tudent covered e		-	-	-						
	and with the gli					-		-			
	ed a tow plane e	•				•				-	
	way. The studer								•	•	
-	glider and opening the airbrakes. Before the instructor could intervene the aircraft stalled and landed neavily. Subsequent investigation revealed the student had anticipated a release at a higher altitude and										
		•					•			-	
	rammed his reac										
	ot have a plan. T n engine failure in			-		•		-	•		• .
-	RPM and use the	-		-	-	-					
	ency like an eng		-			-			-		-
-	on states that this			-		•		-			
	ently, instructors	-									
-	flex-wing) flight						-	-			
	themselves agair						-	•			
-	i.e. having their l	•			-			-	-		
	l landings and ha			-							-
is import	ant that instructo	ors do not i	ntrodu	ce student	s to 'ju	dgen	nent' e	xercise	s befo	ore they hav	ve developed
the requi	red handling skil	ls. Rope bre	ak trai	ning is no e	except	ion, a	and sho	ould be	activ	ely taught ir	n the early
stages of	training <b>before</b> l	peing used	as exer	cises to ch	eck a p	oilot's	s reacti	ons to	them	. As the Inst	ructor's
handboo	k mentions, start	: high and v	ork do	wn to low	-level s	simul	ations.				

Date	7-Sep-2015	Regior	۱	SAGA		SOA	AR Repo	ort Nbr		S-	0583
Level 1	Technical		Level 2	Powerp	lant/P	ropu	lsion	Level	3	Engine fail	ure or
										malfunctio	on
A/C Mod	el 1		Arcu	s M		A/C Model 2 N/A					
Injury	Nil							66			
checks as flaps set rate of cl drive bel switched stopped	ne of the self-lau the engine wari appropriately. Th imb. At about 60 t flailing against t off the engine a in a horizontal po eployed as the pi	med. The ne aircraf Oft AGL t the prope nd comm osition, p	aircraft t acceler he comm eller. The nenced a reventing	was lined-u ated down hand pilot n second pilo turn to ent g the engine	p on t the ru oticed ot call er the e retra	he ru inway d the ed "e dow acting	inway a y and se engine ngine f nwind l g. The a	ind take eparate surge f ailure" eg of th ircraft o	e-off d at t follow just a ne cire desce	commenced he normal s ved by the n s the comm cuit. The pro nded rapidl	l with the speed and oise of a and pilot opeller y with the



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as for take-off and did not use airbrakes. A decision was also made not to land on the cross-strip as the crosswind would have added to the already high workload. The command pilot flew a steep turn onto final but the long-winged aircraft was slow to recover to wings level flight and drifted over a pea crop. While banking to realign with the runway into wind, the left wing caught in the crop causing the aircraft to ground loop to the left and land heavily. The aircraft was substantially damaged. Engine damage was discovered on an earlier occasion and involved a failed bearing and injectors. The engine was sent away for repairs and it is possible the drive belts were either improperly tensioned prior to flight or defective.



Date	17-Sep-2015	Regior	า	VSA		SOA	R Repo	ort Nbr		S-	0584
Level 1	Operational		Level 2	Rur	nway E	vents	5	Level	3	Runway ex	cursion
A/C Mod	el 1		DG	400		A/C	Mode	2	N/A		
Injury	Nil	Dama	age	Minor	Pha	ase	Launo	h		PIC Age	49
This experienced pilot intended to conduct an area familiarisation flight late in the day as he had not						l not					
previously flown from the site. During the take-off roll in a strong 90 degree crosswind from the left, the											
powered	sailplane weath	er-cocke	d to por	. The pilot o	overco	rrect	ed caus	sing the	aircr	aft to grour	nd-loop to
starboard	d under power. \	While the	ground	loop was se	vere,	dama	ige was	limited	d to re	emoving the	e wingtip
wheel. In	vestigation reve	aled the v	wind spe	ed exceede	d the	sailpl	ane's n	naximu	m cro	sswind com	nponent,
compour	nded by the pilot	not heed	ling the	flight manu	al guic	lance	for tak	e-off ir	n a cro	osswind. The	e aircraft
Flight Ma	anual records the	e maximu	m cross	wind compo	onent a	as 8 k	nots. It	furthe	r adv	ises use of f	ull back stick
and a flap setting of -10° in a crosswind so as to keep the tailwheel on the ground until the airspeed is high							eed is high				



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enough for the rudder to be fully effective. The pilot advised that he attempted to launch with +6° of flap and that he may have applied power too quickly, which caused the tail to rise despite him holding full back stick. It was noted that launching for the day had ceased due to the adverse conditions some time before the pilot attempted to take-off. Although the Duty Instructor commented to the pilot about the crosswind conditions before launch, the pilot considered the surface condition of the other runway to be less favourable. It was noted that the pilot had driven 3 hours to the airfield and had assisted in the rigging of two aircraft in the heat. While the pilot did not feel physically tired, his cognitive and decision making processes may have been affected. There are a number of lessons that can be learned from this accident:

- Operations in crosswind conditions require strict adherence to applicable crosswind limitations or maximum recommended crosswind values, operational recommendations and handling techniques. This information will be found in the aircraft Flight Manual, so familiarity with the manual is essential.
- 2. To calculate the crosswind component, the "rule of sixths" is a useful method that does not require a calculator, and gives a fairly accurate approximation for most relative wind angles. The "rule" makes use of the happy coincidence that the sine of 10 degrees is very close to 1/6th, sine 20 degrees is very close to 2/6ths and so on. To use this "rule" you first determine the relative wind angle, and then multiply the reported wind strength by the appropriate fraction. So if the reported wind is 280/12 and you are using runway 32, the wind angle is 40 degrees, or 4/6ths, so the crosswind component is therefore 4/6ths of 12kt, say 8 knots. [Note: at 60 degrees, or 6/6ths, the margin for error is somewhat higher and many pilots multiply by 0.9. Use actual wind speed beyond 60 degrees].
- 3. Fatigue and tiredness are a threat to flight safety because it can lead to impaired performance. One of the most insidious aspects of fatigue is an individual's inability to recognise when their own performance is deteriorating and to take action accordingly. Fatigue may lead to potentially unsafe conditions and deterioration in decision making and situational awareness.

Date	19-Sep-2015	Region		SAGA		SOA	R Repo	ort Nbr		S-	0586	
Level 1	Operational	L	evel 2	Airc	raft Co	ontro	1	Level	3	Wheels up	landing	
A/C Mod	lel 1		LS 7-\	WL		A/C	Model	2	N/A			
Injury	Nil	Damage	è	Minor	Pha	se	Landi	ng	5			
The pilot	flew a straight-i	n approach	and dio	d not config	gure th	ne air	craft fo	or landi	ng. Tł	ne aircraft to	ouched	
down wi	lown with the wheel retracted and suffered damage to the lower fuselage and gear doors. The pilot became											
focussed	focussed on the final glide and forgot to complete the pre-landing checks. Landing mishaps usually occur due											
to poor v	workload manage	ement, so it	is impo	ortant to ge	et som	e of	the tas	ks out o	of the	way early a	ind prepare	
for landi	ng by lowering th	ne undercar	riage o	nce the de	cision	to lar	nd has	been m	ade.	Had the pilo	ot configured	
the aircr	the aircraft for landing earlier rather than rely on doing it during the pre-landing check, this accident may not											
have occ	urred. Remembe	er, the pre-la	anding	check is no	ot an a	ction	list; it	is inten	ded t	o verify the	pilot has	
complete	have occurred. Remember, the pre-landing check is not an action list; it is intended to verify the pilot has completed the check-list items. For further information, refer to Operational Safety Bulletin 01/14 - Circuit											

Date	19-Sep-2015	Regior	۱	GQ		SOA	AR Repo	ort Nbr		S-	0587
Level 1	Operational		Level 2	Airc	raft C	ontro		Level	3	Hard landi	ng
A/C Mod	el 1		PW	-6U		A/C	Model	2	N/A		
Injury	Nil	Dama	age S	Substantial	Pha	ase	Landi	ng		PIC Age	
Damage to the main undercarriage and nose wheel assembly was detected during the annual maintenance								aintenance			
inspectio	n. It was determ	ined that	the dar	nage had be	en ca	used	by a he	avy lan	nding	that went u	nreported.
When an aircraft has experienced a hard landing, it must be immediately reported and the aircraft											
thorough	thoroughly inspected for damage before its next flight. Given the level of damage found, the severity of the										

and Landing advice.



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landing would have been evident to the PIC but for reasons that are not known, the PIC did not report it. Reporting incidents helps create a culture that seeks to identify and control hazards, and in turn requires a club culture that encourages open disclosure. This will reduce risks and the potential for harm. Documenting incidents acts as a valuable tool for club operations panels to get an understanding of the areas which need improvement. Every aviator, from pilots, to engineers, to ground crew, must report their accidents and incidents to the GFA and work towards finding out what happened and why, as often even a seemingly small event can highlight a potentially serious problem.

Date	19-Sep-2015	Regior	1 I	VSA		SOA	R Repo	ort Nbr		S-	0592
Level 1	Airspace		Level 2	Aircra	aft Sep	arati	on	Level	3	Near collis	ion
A/C Mod	el 1		Piper PA	-25-235		A/C	Mode	2	Cessna 152 PIC Age 45		
Injury	Nil	Damage Nil		Pha	ase Landing				PIC Age 45		
	plane landed on action by taxyin			•	-						•
touchdov	avoiding action by taxying off to the side. The tow pilot did not sight the other aircraft until just prior to touchdown, and decided it was safer to land and stop short than risk going around and releasing the tow										

rope. The tow pilot advised that he heard the powered aircraft give a taxying call on the cross runway but did not hear a caall when entering and backtracking the oprational runway. The tow pilot mentioned his attention was diverted by gliders that had landed on grass left and he was also concentrating on his aiming point, which was wll before the runway threshold. Landing with an aircraft on the runway occurs too often because it's so easy to do. Final approach is a high workload time and once we have turned final we focus on completing the landing safely. Aircraft moving on the runway can be difficult for pilots to discern when they are focusing on the primary task. When operating at a non-controlled aerodrome, the the principles of 'alerted' see-and-avoid are critical to safety. Pilots must monitor the aerodrome frequency and broadcast their intentions to maintain situational awareness for all pilots. Pilots should also make any additional broadcasts as necessary to minimise the risk of collision.

Date	19-Sep-2015	Regior	า	GQ		SOA	R Repo	ort Nbr		S-	0599
Level 1	Operational		Level 2	Airc	raft Co	ontro	_	Level	3	Hard landi	ng
A/C Mod	el 1		Standard	Cirrus		A/C	Model	2	N/A		
Injury	Nil	Dama	age	Minor	Pha	ase	Outla	nding		PIC Age	68
Returning	g from a cross co	ountry flig	ght, the pi	lot set fina	l glide	20 k	ms fror	n the a	irfield	l at a height	of 4500ft
into an 1	1 knot headwind	l. At abou	ıt 2,000ft	and 10kms	s out t	he pi	lot was	unable	e to si	ght the airfi	eld and, as
he believ	ed the area ahea	ad had fe	w landing	options, h	ie deci	ided t	o cond	uct an	outla	nding in a p	loughed
paddock	in hilly terrain b	eneath hi	m. During	; final appr	oach i	into t	he sele	cted pa	addoc	k the pilot r	noticed an
irrigation	pipe running do	wn its m	iddle and	chose to la	and pa	ist the	e pipe.	Upon t	ouch	down a win	gtip
contacte	d the ground cau	ising the	aircraft to	swing vio	lently.	The	pilot w	as surp	rised	by the amo	unt of slope
in the pa	ddock. Investiga	tion revea	aled the p	ilot has ma	acular	dege	neratio	on, whi	ch aff	ects central	vision when
looking directly at something. His CFI believes this is the reason why he could not see the airfield and the											
irrigation pipe in the paddock. While the pilot had been cleared to fly by his doctor, he has now made the											
decision	to cease flying.										

Date	20-Sep-2015	Region	1	VSA		SOA	R Repo	ort Nbr		S-	0589
Level 1	Operational		Level 2		Airfrar	ne		Level	3	Fuselage/	Wings/Empe
										nnage	
A/C Mod	el 1	SZD-4	8-1 Jant	ar Standard	2	A/C	Model	2	N/A		
Injury	Nil	Dama	age	Nil	Pha	ise	Grour	nd Ops		PIC Age	75
While de-rigging the aircraft following			/ing an o	utlanding, 1	the tai	lplan	e lockir	ng bolt v	was f	ound to be	disengaged



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from its locking mechanism and had started to withdraw. The tailplane bolt is inserted through a hole in the fin leading edge and is locked by rotating it 90° until the red line on the bolt aligns with the red line on the fin. The glider had been rigged for a week prior to the incident, so it is unclear whether the bolt was left unlocked during the rigging or was subsequently tampered with. If the bolt was not locked during rigging, then there was a breakdown in the dual inspection regime. Notwithstanding, the subsequent Daily Inspection and pilot pre-boarding checks also failed to identify the bolt was unlocked. A good Daily Inspection helps in avoiding incidents and accidents, by finding faults in or issues with the glider before it flies. A person holding Daily Inspector authorisation therefore plays a front line role in incident and accident prevention, and in continuing to keep the glider airworthy. It is important when inspecting a glider for the first time, that the inspector reads the manufacturer's flight and/or technical manuals. These manuals will contain specific checks that must be complied with. All daily inspections must comply with the requirements of the manufacturer's manuals, which are authoritative sources of information on the daily inspection and technical aspects of the particular glider. Each pilot is also responsible for completing a thorough preboarding check of the aircraft, as this check provides the final opportunity to identify problems before flight. However, it is all too common to see pilots walking round 'going through the motions' but seeing nothing. Inadequate pre-boarding checks result from either insufficient training or complacency. Like the Daily Inspection, the key to a good pre-boarding check is understanding what you are checking and why you are checking it. You must know what is normal and abnormal, what is airworthy and what is not. Adhere to the guidelines in the aircraft's pilot operating handbook or approved flight manual. For further information, please read the GFA Daily Inspector Handbook.

Date	20-Sep-2015	Region	VSA	SC	AR Repo	ort Nbr		S-	0585
Level 1	Operational	Le	vel 2	Airframe		Level	3	Doors/Car	nopies
A/C Mod	el 1	-	Twin Astir	A/	C Mode	2	N/A		
Injury	Minor	Damage	Substantial	Phase	Laund	:h		PIC Age	58
The com	mand pilot (PIC)	was taking a	n ultralight stud	lent pilot o	n an Air	Experie	ence f	light. The in	itial launch
	ration was norm	-	•			•			
	ne rear canopy flo	-							
	as not experienc	•	, ,			•			
	vere unsuccessfu								•
	t a mayday call c			•	•				-
	kimately 200ft AC	•						-	
	as open. Meanw	•							
	e effect of the sl good position to	-						-	-
	ent circuit and lar								
	if the locking me	-							• •
	ne had complete							-	
-	and will properly			-					-
	d in every flight.	-		-					-
-	item in the impr		-	-					-
according	gly. When this ph	enomenon i	s coupled with	unfavoural	ole psycl	nologica	al and	l physical co	onditions
such as ti	me pressure, hig	h workload,	fatigue, noise,	etc., the re	sult is a	human	failuı	re.	

Date	20-Sep-2015	Regior	۱		GQ		SOA	R Repo	ort Nbr		S-	0596
Level 1	Operational		Leve	el 2	Run	way E	vents	5	Level	3	Runway in	cursion
A/C Mod	LS 1-f			f		A/C Model 2 PW-6U			·6U			
Injury	Nil	Dama	Damage Nil			Pha	ise	Grour	nd Ops		PIC Age	55
While towing a glider to the launch point, the driver (an experienced pilot) entered the runway as another					as another							



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glider was on a base leg for landing. The driver entered the operational runway from the main apron, using the taxiway situated about midway along the runway. The driver stopped at the holding point, confirmed there was no aircraft on approach and then made an entering and backtracking call on the CTAF. Unknown to the driver, a glider that had got low upwind of the airfield was conducting a modified circuit onto the reciprocal runway from behind and was unsighted. The driver did not hear any circuit calls and, as he was taxying to the launch point on the main runway, the glider landed behind him, pulling off the runway to one side as it went past the vehicle. Investigation later revealed that the driver's radio was unserviceable due to a flat battery. The pilot of the landing glider unnecessarily overtook the vehicle and landed alongside, when a safer option was to land much shorter and further away. This incident highlights the importance of clearing the airspace in all directions of potential conflict when entering a runway to achieve the required situational awareness. As the primary tool of alerted see-and-avoid is the radio, it is also important that the radio is on the correct frequency and functioning. Pilots should also make a straight approach and landing run parallel to the runway and must not taxi off the runway unless operationally required and only if no other aircraft can land alongside in the direction of taxi.



Date	22-Sep-2015	Regior	า	NSWGA		SOA	AR Repo	ort Nbr		S-	0588
Level 1	Operational		Level 2	Run	iway E	vents	8	Level	3	Runway ex	cursion
A/C Mod	el 1		Discu	s 2c		A/C	Model	2	N/A		
Injury	Nil	Dam	age	Minor	Pha	se	Landi	ng		PIC Age	44
While lar	nding in strong a	nd gusty	wind con	ditions and	durin	g the	latter	stages (	of the	ground roll	, the pilot
was distr	acted by moven	nent of a	glider on	another ru	nway t	to his	right.	When t	he pi	lot again loc	oked forward
he noted	was distracted by movement of a glider on another runway to his right. When the pilot again looked forward he noted the glider was veering to the right in the direction he had been looking. Despite the application of										
left rudd	er to regain runv	vay headi	ing, the ri	ght wingtip	o conta	acted	the gr	ound a	nd th	e aircraft pr	oceeded to
ground lo	oop to the right a	at low spe	eed. The	wingtip skic	d was r	remo	ved du	ring the	e runv	way excursio	on. The pilot
	xperienced hang			•							
flight on	type. The local c	lub CFI no	oted that	a moment	's inatt	tentio	on in th	e wind	y con	ditions wou	ld have been
	to lose control	-			-				-		•
respond to any directional change immediately while sufficient control authority exists to counteract the unwanted movement. Pilots must also anticipate the need for corrective control input in order to respond											
	d movement. Pil	ots must	also anti	cipate the r	need fo	or co	rrective	e contro	ol inp	ut in order t	o respond
quickly.											



Date	23-Sep-2015	Regior	1	NSWGA		SOAR	Repo	ort Nbr		S-	0590
Level 1	Operational		Level 2	Terra	ain Colli	isions		Level	3	Collision w	ith terrain
A/C Mod	el 1		Discus	5 2c		A/C N	∕lodel	2	N/A		
Injury	Nil	Dama	age	Minor	Phas	se (	Outlar	nding		PIC Age	44
	ing back to the h						•				•
	o conduct an out	-	-	•		• •					
landing. During the hold-off following a normal flare, the pilot noticed two star pickets ahead. Concerned											
they may	/ have formed pa	rt of a wi	ire fence,	the pilot e	ased ba	ack on	n the s	tick to	gain	clearance a	nd landed
further a	head. During the	subsequ	ent de-rig	g of the glie	der, the	e crew	/ notic	ed a 15	5mm	deep cut in	the leading
edge of t	he right wing, ab	out 10cn	ns from th	ie fuselage	e. Upon	furthe	er inv	estigat	ion it	was determ	nined that
the wing	had come into c	ontact w	ith a star <sub>l</sub>	oicket that	forme	d part	of an	old fei	nce li	ne that was	mostly
hidden b	y long grass. The	selected	paddock	was used t	for graz	zing ar	nd had	d not b	een c	ultivated. W	/hile
cultivated paddocks are usually obstacle clear, grazing paddocks can sometimes have many small obstacles											
hidden ir	n grass that can c	ause dan	nage. For	this reasor	n, cultiv	ated a	and st	ubble	fields	usually pro	vide better
outlanding options.											

Date	26-Sep-2015	Regior	n	WAGA		SOA	AR Repo	ort Nbr		S-	0591
Level 1	Technical		Level	2 Power	plant/F	ropu	lsion	Level	3		/erplant/Pro
										pulsion Iss	ues
A/C Mod	el 1		Stem	nme S10		A/C	Model	2	N/A		
Injury	Nil	Dama	age	Minor	Pha	ase	In-Flig	ght		PIC Age	57
The pow	ered sailplane wa	as being ı	used or	n a trip from	Perth	WA to	o Burke	town C	ld fly	ing via Alice	e Springs.
While rea	adying the aircra	ft for an o	early m	norning fligh	t at Bui	ketov	wn, the	comm	and p	ilot was un	able to start
the engir	e readying the aircraft for an early morning flight at Burketown, the command pilot was unable to start ngine. Upon examination, it was found that the plastic distributor gear teeth on the magneto were										
stripped.	No apparent rea	ason for f	ailure o	could be det	ermine	d but	t it is lik	ely rela	ated t	o the high s	hock loads
from the	impulse unit wh	ile startir	ng that	morning (th	e aircra	aft fle	w in ar	id taxie	d und	ler power tl	ne day prior).
The Limb	ach engine is a s	ingle mag	gneto a	arrangemen	that is	com	mon to	many	powe	red sailplan	es, and this
incident	highlights just ho	w easy it	is for a	a terminal fa	ilure to	ο ος ςι	ur with	out wai	ning.	Unlike a po	owered
aircraft t	hat is started wh	ile on the	e grour	nd, the engir	e of a j	oowe	red sail	plane i	s usua	ally turned o	off in flight
and only	and only restarted if needed. For this reason, a failure to start poses a greater risk to a powered sailplane										
than with	than with a powered aircraft, and this incident supports GFA guidance that pilots should not fly powered										
sailplane	s where they wo	uldn't go	with a	normal glid	er.						





Date	27-Sep-2015	Regior	۱	VSA		SOA	R Repo	ort Nbr		S-	0597
Level 1	Operational		Level 2	Groun	nd Ope	eratio	ns	Level	3	Ground ha	Indling
A/C Mod	el 1	Sta	ndard Lib	elle 201 B		A/C	Model	2	N/A		
Injury	Nil	Dama	age Su	ubstantial	Pha	ise	Grour	nd Ops		PIC Age	62
The glide	r was being tow	ed back t	o the han	gar using a	rigid	bar ar	nd wing	g dolly a	at the	e end of the	day's flying.
The drive	r was towing at	excessive	e speed, w	hich cause	d the	tail do	olly wh	eel to d	oscilla	ate. A numb	er of
The driver was towing at excessive speed, which caused the tail dolly wheel to oscillate. A number of members witnessed the event and called/motioned to the driver to stop. The driver braked heavily in											
response	and the inertia	of the glio	der result	ed in it coll	iding	with t	he car.	The ta	ilplan	ne and eleva	tor were
substanti	ally damaged. Ir	nvestigati	on reveal	ed that the	towir	ng bar	in use	was no	ot app	proved for t	he aircraft.
The CFI a	lso noted that tl	he driver	was inatte	entive to th	ne tasł	k and t	that hi	s situat	ional	awareness	may have
been deg	raded by fatigue	e. Drivers	using a ri	gid bar mu	st nev	er tov	v at fas	ster tha	in wa	Iking pace, a	and should
always use the tow-out equipment designed for use with the glider. When towing gliders, never brake											
heavily a	nd always allow	a greater	distance	to slow or	stop t	han tł	ne dist	ance yo	ou wo	ould allow w	ith only the
car.											





Date	27-Sep-2015	Regior	1 I	VSA		SOA	AR Repo	ort Nbr		S-	0607
Level 1	Operational						Level	3	Runway in	cursion	
A/C Model 1 Standard Libelle 201 B A/C Model 2 Cessna 172S							sna 172S				
Injury Nil Damage Nil Phase Landing PIC Age 62							62				
while a g vacate th aircraft, l	ed aircraft from a lider was establi le runway and ev anded long and lools and the Ch	shed on f ventually taxied cle	inal appr asked th ear. The C	oach. The p e glider pilo lub CFI has	oower ot to 'g raise	pilot go arc d awa	did no ound'. T	t respo he glid	nd to er pil	several req ot overflew	uests to the powered

Date	28-Sep-2015	Regior	۱	GQ		SOA	R Repo	ort Nbr		S-	0595
Level 1	Airspace		Level 2	Airspac	e Infri	ingen	nent	Level	3	Airspace In	nfringement
A/C Mod	el 1		DG-10	)00S		A/C	Model	2	N/A		
Injury	Nil	Dama	age	Nil	Pha	ase	In-Flig	ght		PIC Age	17
During ar	n mutual flight th	e aircraf	t entered	controlled	airspa	ace o	n five o	occasion	ns. Inv	estigation r	revealed the
pilots did	During an mutual flight the aircraft entered controlled airspace on five occasions. Investigation revealed the pilots did not maintain adequate situational awareness and drifted into controlled airspace while										
thermalli	ng. The pilots ha	ve been (	counselle	d and will	partici	pate	in reme	edial tra	aining	g. Violations	of
	d airspace can be		-	-		-					
charts, ar	nd by thoroughly	familiari	sing you	self with lo	ocal air	rspace	e and c	ther ae	erona	utical issues	5. AIP ENR 1.1
(19.12) 'A	(19.12) 'Avoiding Controlled Airspace' has this to say: "For aircraft operating in close proximity to an airspace										
boundary	boundary where there is a risk of an airspace infringement, the pilot in command should consider obtaining										
a clearance to enter the airspace or altering track to remain well clear.											

Date	30-Sep-2015	Region		GQ	SOAR Repo	ort Nbr		S-0600
Level 1	Operational		Level 2	2 Aircraft C	ontrol	Level	З	Hard landing
A/C Mod	11		ASk	<-21	A/C Mode	2	N/A	



Injury	Nil	Damage	Substantial	Phase	Landing	PIC Age	68
The flight wa	as an annual fl	ight review wi	th a Level 2 ins	structor in	the back seat. As pa	art of the as	sessment,
the pilot und	der check was	to land outsid	e the runway g	gable mark	ers to simulate an c	outlanding. <sup>•</sup>	The pilot
turned final	and set his ain	ning point just	beyond a drai	nage ditch	running across the	landing pat	h. The pilot
flew a low a	pproach to avo	oid overshooti	ng but allowed	d the speed	l to reduce while ke	eping the a	iming point
in view. As t	he aircraft got	closer to the	ground the pilo	ot then rea	lised he was unders	shooting an	d closed the
airbrakes bu	t the glider to	uched down h	eavily on the r	ose wheel	and rolled through	the ditch re	esulting in
the nose wh	eel being pusł	ned up into the	e fuselage. It is	much mor	re difficult to detect	: a shift in th	ne aiming
point in the	undershoot ca	ise than it is in	the overshoot	t case. A gl	ider overshooting o	only has to g	o a little way
	•				rshoot. A glider und	-	-
long way be	low the appro	ach path befo	re it becomes o	obvious tha	at the aiming point	has shifted	and that the
glider is in a	n undershoot s	situation. The	undershoot sit	uation is p	otentially dangerou	us, because,	once it has
	•		-	-	previous approach j		-
				•	eviously limited it r	•	
					alf airbrake. In pract		
approximate	ely two thirds a	airbrake as thi	s allows a grea	ter margin	for recovering from	n an unders	hoot.

Date	1-Oct-2015	Regior	۱	GQ		SOA	AR Repo	ort Nbr		S-	0603
Level 1	Operational		Leve	el 2 – – – – – – – – – – – – – – – – – –	Airfrar	ne		Level	3	Fuselage/\	Nings/Empe
										nnage	
A/C Mod	el 1		AS	K-21Mi		A/C	Model	12 N/A			
Injury	Nil	Dam	age	Substantial	Pha	Phase In-Flight				PIC Age	45
revealed when put discovere	local flight the e that the rudder shed directly. Up ed that the top h ture. The hinge v	was stuc on disco inge pin	k, wou nnecti had be	Ild only move ng the rudder ecome jamme	with a cable d in its	lot o s and s busł	of force the low ning by	and wo wer atta	ould n achm	ot reach ful ent bolt it w	ll travel even vas

Date	4-Oct-2015							0879			
Level 1	Operational		Level 2	Grour	nd Oper	ratio	ns	Level	3	Other Gro	und Ops
										Issues	
A/C Mod	el 1	HF	PH Glasfl	ugel 304 C		A/C	Model	2	N/A		
Injury	Nil	Dama	age	Nil	Phas	ie i	Grour	nd Ops		PIC Age	54
Day 1 of	the 2015 Queen	sland stat	e gliding	competitic	on being	g hel	d at Ki	ngaroy,	, Qld,	The pilot ha	ad conducted
a safe ou	tlanding in a sor	ghum stu	bble fiel	d on the Da	rling Do	owns	to the	west o	of the	Kingaroy va	alley. A
fellow co	mpetitor on a la	y day vol	unteered	l for the ret	rieve ar	nd hi	itched	the pilo	ot's tr	ailer to his o	ar, a two-
year-old	year-old Nissan X-Trail petrol-engine 4WD, and set off. The trip was uneventful and the pilot was picked-up										
up at the entrance to the paddock. As the vehicle was driven across the paddock towards the waiting glider,											
the drive	r noticed a trail	of small s	pot fires	behind the	m. The	drive	er stop	ped the	e car	and the two	occupants
extinguis	hed the fires by	stamping	on then	n. On contir	nuing th	eir s	low pr	ogress	acros	s the field tl	ne smell of
-	ppeared to be i	-	-		-						-
-	p from around t				-					•	
	or two smolderir	-	•		-			•			
	t was visibly on f						-	-			-
	gh. The pilot and				-			•	•		
	e way. The plum					-	-			-	
	and kids in tow		-								
last of th	last of the flames. The pilot originally thought that a sorghum stalk had ruptured a fuel line, which would										



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account for the spot fires. However, it was most likely caused by radiated heat from the car's catalytic converter igniting the flammable sorghum. As the accumulated flammable material burns, small amounts of burning material falls to the ground periodically causing spot fires. It is quite common in rural Australia for the ignition of flammable vegetation to occur when it is caught in a vehicle's hot metal exhaust pipe, muffler or catalytic converter and shield when driving through dry grass or crop paddocks. Under normal running conditions any motor vehicle exhaust can become hot enough to start a fire in dry grass. The amount of heat radiated from a hot exhaust may also be sufficient to ignite flammable vegetation if it is located too close. Where possible avoid driving a vehicle across paddocks of long dry grass or crop stubble and parking in vegetation on roadsides and paddocks.



Date	4-Oct-2015	Regior	۱		VSA		SOA	AR Repo	ort Nbr		S-0610	
Level 1	Operational		Leve	el 2	Mis	cellar	eous		Level	3	Rope/Ring	s Airframe
											Strike	
A/C Model 1 SZD-50-3 Puchacz A/C Model 2												
InjuryNilDamageSubstantialPhaseLaunchPIC Age49During a winch launch the rope between the drogue parachute and the weak link broke, catapulting the									49			
weak link damage. length. T springing	winch launch th into the lower f Investigation re- he ropes used be back when tens ice. The Club has	fuselage I vealed th etween th sion is rela	oetwe e trac ne dro eased	een t ce ha ogue l (e.g	he winch r d elastic p chute and . wire or si	elease ropert the ri sal). V	e and ies a ngs s Vhere	the un nd was hould b e hose	dercari covere be of a pipe is	riage ed by non-e used,	resulting in hose pipe o elastic type it should er	substantial f only half its to prevent nclose the





Date	5-Oct-2015	Region		WAGA		SOA	R Repo	ort Nbr		S-	0593
Level 1	Operational		Level 2	Airc	raft Co	ontro	I	Level	3	Hard landi	ng
A/C Mod	el 1		ASK-2	21		A/C	Model	2	N/A		
Injury	Nil	Dama	ge	Nil	Pha	se	Landir	ng		PIC Age	67
while est long fina not respo commen airspeed The glide aircraft. proximity response the conti retract th	was conducting ablished on the l approach. The p ond and continue ced his final app . During touchdo er then experience During the glider y to the glider. Pi to a bounced la rols is amplified. ne airbrakes. A se w pilots have be	base leg, t pilot radio ed the app roach into wn the gli ced three s 's landing, lot induce nding. Wh To correct econd atte	he pilot i ed the to proach. The a 15 to 2 der flew sustained the tow ed oscillat en landir t from a k empt at the	dentified p w pilot to ne glider p 25 knot gus through cu l oscillation plane flew cions occur ng at highe pounced la ne landing	ootent alert h ilot tu sting c url ove ns resu v overh v overh v overh r spee nding, can th	ial fo nim o rned rossv r froi ilting nead the sele sele sele	r confli f the po final ah vind wi m nearl from e with th pilot ov itch ser ct and l e made	ct with beential lead of th half by trees fforts c e tow r ver pitcl nsitivity nold a s withou	a tow I conf the t airbra s and of the cope of hes the y is gr stead	v plane cond lict but the ow plane ar akes and 65 the aircraft pilot to con coming in cla ne nose dow eater so any y level attitut ther problem	ducting a tow pilot did nd knots bounced. otrol the ose yn in y misuse of ude and ms. The

Date	5-Oct-2015	Region	n NSWGA		SOAR Repo	ort Nbr	S-0594
Level 1	Airspace	Le	/el 2	Aircraft Sep	aration	Level 3	Near collision



A/C Model 1		As	stir CS	A/C	Model 2	Bee	chcraft C23	Sundowner	
Injury	Nil	Damage	Nil	Phase	Landing		PIC Age	66	
An unidentied powered light aircraft made a number of low circuits at winch site whilst gliding operations									
were in progress and without communicating on the allocated frequencies. The Club CFI is working with									
GFA's AA&A Officer to have AirServices expand the local broadcast area to include the gliding site and									
therefore limit the chance of frequency ambiguity.									

Date	6-Oct-2015	Regior	ı	GQ		SOA	R Repo	ort Nbr		S-	0601
Level 1	Operational		Level	2	Airfrar	ne		Level	3	Landing	
										gear/Indic	ation
A/C Model 1 Ventus-2cT A/C Model 2 N/A								i.			
Injury Nil Damage Minor Phase Launch									PIC Age	59	
During the aerotow launch across rough ground the undercarriage lever moved out of the locked detent.											
Just after	the pilot adjust	ed the fla	ps fror	m setting -2 t	o +2, a	nd at	aroun	d 30 kt	s IAS,	the underca	arriage
retracted	and the glider	collapsed	onto tl	he ground. Tl	ne pilo	t note	ed that	he too	k 1 oi	2 seconds	to release as
he experienced difficulty placing his hand on the release due to the roughness of the runway surface. The											
CFI repor	ted that recent	dry condi	tions a	nd erosion h	ad forr	ned s	olid clu	imps of	fgras	s that made	the
operation	nal runway quite	e rough.									

Date	7-Oct-2015	Regior	1 I	GQ		SOA	AR Repo	ort Nbr		S-0598	
Level 1	Operational		Level 2	Airc	raft C	ontro		Level	3	Wheels up	landing
A/C Mod	el 1		LS	7		A/C	Model	2	N/A		
Injury Nil Damage Minor Phase Landing PIC Age 42									42		
This low experience pilot configured the aircraft for landing but did not properly engage the undercarriage											
	he locking deten										
	tracted upon lan	-					-				
workload situations, most commonly during the landing phase. Pilots being converted to a new glider type											
must ma	ke sure that they	know ar	nd fully ur	iderstand t	he fu	nctio	n and lo	ocation	of all	the control	s and
systems.											

Date	10-Oct-2015	Region		GQ		SOA	R Repo	ort Nbr		S-	0602
Level 1	Operational		Level 2	Airc	raft Co	ontro	I	Level	3	Wheels up	landing
A/C Mod	el 1		Discus	5 bT		A/C	Model	2	N/A		
Injury	Nil	Dama	age	Minor	Pha	se	Landiı	ng		PIC Age	44
engine fa join circu the unde and suffe to fail to high. Pilo engine. F engine p	g a normal aeroto niled to start and nit but due to the prcarriage and co ered minor dama start, and when nots can reduce th for further guidant roblem was subs tor, which appea	the pilot increase mplete hi ge to the this happ e workloa nce, refer equently	elected t d workloa s pre-lan lower fus ens belov ad by con <u>Operatio</u> traced to	o return to ad associat ding check selage and v 2,000ft a figuring th <u>onal Safety</u> a loose ni	the a ced wit s. The under and a la e aircr <u>Bullet</u> pple fe	erodr h eng aircra carria andin aft fo in (O eedin	ome. T gine ma aft lanc age doo g is ine or landii <u>SB) 01/</u> g fuel in	he airc anagem led with ors. It is vitable, ng befo <u>14 - Cir</u> nto the	raft v ent t n the not the re at <u>cuit a</u> diap	vas well-pos he pilot forg undercarria uncommon workload be tempting to and Landing hragm on th	itioned and got to lower ge retracted for motors ecomes very start the <u>Advice</u> . The ne aft



Date	15-Oct-2015	Regior	1 I	WAGA		SOA	R Repo	ort Nbr		S-	0604
Level 1	Operational		Level 2	Airc	raft Co	ontro		Level	3	Hard landi	ng
A/C Mod	el 1		LS 8	18		A/C	Model	2	N/A	L.	
Injury	Nil	Dama	age S	ubstantial	Pha	se	Landi	ng		PIC Age	67
The expe	rienced pilot ha	d just reti	urned to	the home a	irfield	after	r a four	hour c	ross-	country fligh	nt of 318
kms. A st	raight-in approa	ch was co	onducted	and the fin	al app	roac	h was f	lown at	t a sp	eed approp	riate for the
	conditions. The aircraft touched down at flying speed and became airborne. The pilot was slow to react due										
to a momentary distraction and the glider stalled from about four feet, landing heavily and damaging the											
undercar	riage. The pilot f	elt he ma	ay have b	een fatigue	d follo	owing	; the lo	ng fligh	t. Fat	igue has be	en identified
	or in numerous a							• •		• •	
-	n long cross-cou				-			-		-	-
symptom	is of fatigue are	increased	l reactior	time, a de	crease	d abi	lity to	concen	trate	on multiple	tasks,
	short-term mem		•		•				-		
	visual perception	-									
being res	ted before flight	, maintai	ning prop	er nutritio	n and	hydra	ation le	vels, us	sing o	xygen and t	aking regular
breaks during rostered periods.											

Date	15-Oct-2015	Regior	1 I	SAGA		SOA	R Repo	ort Nbr		S-0613	
Level 1	Operational		Level 2	2	Airfrar	ne		Level	3	Landing	
										gear/Indic	ation
A/C Mod	A/C Model 1 Discus l				b A/C Model 2				N/A		
Injury	Nil	Damage Minor I			Pha	ise	Landi	ng		PIC Age	74
During the take-off roll the undercarriage collapsed. It is not clear whether the undercarriage handle was improperly located in the locking detent, or if the lever moved out of locking detent due to wear. The detent will be restored to ensure positive locking before the aircraft returns to service.											

Date	16-Oct-2015     Region     NSWGA     SOAR Report Nbr     S-0606       Operational     Level 2     Terrain Collisions     Level 3     Collision with terrain								0606		
Level 1	Operational		Level 2	Terra	ain Col	lisior	ns	Level	3	Collision v	vith terrain
A/C Mod	el 1		ASK-	21		A/C	Model	2	N/A	L .	
Injury	Nil	Dama	age Su	ubstantial	Pha	ise	Landir	ng		PIC Age	60
Pilot on f	irst solo lost dire	ctional co	ontrol wh	ile landing	down	wind	and up	hill. Th	e glic	ler turned le	eft through
90 degre	es and collided w	ith a picl	ket and cl	nain fence	causin	ig sub	ostantia	l dama	ge to	the port w	ng. The pilot,
who com	menced gliding i	n late 20	14, was p	articipatin	g in ar	ı ab-i	nito glio	ding co	urse.	The aerodr	ome runways
are on a s	slope and it is us	ual for th	e club to	launch dov	wnhill	into v	wind an	id land	uphil	l, providing	the tailwind
	component is not excessive. The pilot was familiar with this procedure, having flown 19 flights during the										
course. The pilot was sent solo on her 20th flight on the course by the same instructor who had flown with											
	er nine previous i										
-	l approach phase	-			•						•
-	ith a 5 knot tailv								-		-
	ed at a shallowe	•	•	•							• ·
	p the canopy, th										
-	he glider to ballo	-	-	-					-		-
-	eriod. The glider			-							-
	ected the nose d			-							-
	ole to maintain d			-			-			-	•
	wings level. The										
	glider was head	-				•		-	•		
low energ	gy resulting in su	bstantial	damage	but no inju	ry to t	he pi	lot. The	ese inci	dents	s usually occ	cur when the



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pilot does not maintain a stable approach, allows the glider to touch down at flying speed, and mishandles the subsequent bounced landing. Bounced landings and subsequent 'pilot induced oscillation' can be reduced by flying a stable approach at the correct airspeed and using about half airbrake, rounding out at the correct height without adjusting the airbrakes unnecessarily, holding off a few feet above the ground and then allowing the glider to gradually settle as the speed decays. Potential causal factors include low experience, upward sloping runway and tailwind component.



Date	19-Oct-2015	Region		VSA		SOA	R Repc	ort Nbr		S-	0605	
Level 1	Operational		Level 2	Airc	raft Cor	ntrol		Level	3	Hard landi	ng	
A/C Mod	el 1	G	rob G 103	3 Twin II		A/C	Model	2	N/A			
Injury	Nil	Dama	age Su	ıbstantial	Phase	е	Landi	ng		PIC Age	48	
The pilot	, who was on he	r third sol	o flight, r	nishandled	l the rou	und	out, ba	lloone	d and	landed hea	vily. The	
pilot had	earlier spent a v	veek at ar	nother clu	ıb on an ab	o-inito c	cours	se and	was clo	se to	solo standa	ard. The pilot	
then trav	elled to the Wor	nen In Gli	iding Wee	ek event at	a new	site,	where	eupon s	he w	as assessed	as solo	
standard	standard by an instructor after two further flights. The pilot completed two successful solo flights, although											
her appro	her approach on the second flight was shallower than her instructor preferred and he asked that she											
approach	approach slightly higher on her next flight. On her third solo flight the pilot established herself on a high											
close fina	l but found hers	elf diving	at the air	ning point	despite	e the	applic	ation o	f full	airbrake to	maintain the	
aiming po	pint. The pilot ov	er-flared	resulting	in the airc	raft ball	loon	ing. Th	e pilot	imme	ediately clos	sed the	
	but did not rega							•			damaged.	
Causal fa	ctors include flyi	ng a non-	stable ap	proach, slo	oping ru	inwa	ay, and	misuse	e of co	ontrols.		
Advice to	<b>instructors:</b> To	establish	that a pil	ot has satis	sfactory	y per	forma	nce and	d skill	s in flight cr	itical areas	
for their	first solo, the ins	tructor w	ill usually	rely on eit	her a tr	raini	ng caro	d, a det	ailed	syllabus she	eet, word of	
mouth ar	nd/or log-book e	ntries. If y	ou haver	n't persona	Ily asse	essed	the tr	ainee's	prog	ress over a	reasonably	
long peri	long period of time, then it is a good idea to talk with the instructor who last flew with the pilot. It will also											
take you	take you at least four launches to check through the essential exercises.											

Date	19-Oct-2015	Region		NSWGA	SOAR Repo	ort Nbr	S-0612
Level 1	Operational	Operational Lev		Airfrar	ne	Level 3	Landing



		Discus-2c A/C Model 2						gear/Indic	ation		
A/C Model	1	D	Discus-2c			2	N/A				
Injury	uryNilDamageMinorPhaseLandingPIC Age65e pilot was unable to lock the undercarriage in the extended position and landed with the wheel										
retracted. I	nvestigation rene lever. The n	evealed the un	arriage in the e dercarriage sh s cleaned and g	aft was ins	ufficien	tly lubr	icate	d which pre	vented easy		

Date	25-Oct-2015	Regior	1	NSWGA	1	SOAR	Repo	rt Nbr		S-	0609
Level 1	Operational		Level 2	Airc	raft Cor	ntrol		Level 3	3	Wheels up	landing
A/C Mod	el 1		JS2	LΒ		A/C N	Лodel	2	N/A		
Injury	Nil	Dama	age S	Substantial	Phase	e L	Landir	וg		PIC Age	61
aerotow tow plan occurred landed o	The pilot had prepared his glider for a cross-country flight and was flying fully ballasted. Following a normal aerotow launch and at about 250 feet the pilot called for more speed. The tow pilot lowered the nose of the tow plane to achieve this and as the glider pilot transitioned to the low-tow position a slight bow in the rope occurred. On becoming taught the rope broke at the glider near the rings. The glider pilot turned 180° and landed on the operational runway on a reciprocal heading, still carrying full ballast. The pilot conducted a smooth landing but the undercarriage was not locked down and the aircraft came to rest on its fuselage. The undercarriage lever, which is located on the right-hand side of the cockpit, was found to be neither locked										
undercar up nor de is likely t	riage lever, whic own. The pilot ac ne undercarriage the weak link to	h is locat lvised tha lever mo	ed on th at he wa oved out	e right-han s not in the of its lockin	d side of habit of ng deter	f the o f retra nt due	cockp acting e to w	it, was the une ear. Ins	foun derca spect	d to be neitl arriage durir ion of the to	her locked ng tow and it ow rope

Date	25-Oct-2015	Region		NSWGA		SOA	R Repo	ort Nbr		S-	0608	
Level 1	Airspace		Level 2	Aircra	ft Sep	arati	on	Level	3	Collision		
A/C Mod	el 1		ASK-2	21		A/C	Model	2	HK 3	36 R		
Injury	Nil	Dama	ge Su	ıbstantial	Pha	se	Landi	ng		PIC Age	79	
A glider la	anded short and	heavily, a	nd durin	g the cours	e of th	he gr	ound ro	oll its st	arbo	ard wing str	uck the	
starboard	d wing of a moto	r glider ho	lding ou	tside the rι	unway	mar	kers. Tl	ne glide	er suf	fered dama	ge to its wing	
-	leading edge and the motor glider lost part of its winglet. The motor glider landed shortly before and had taxied back to the take-off point outside the runway markers and was holding adjacent to the runway											
	axied back to the take-off point outside the runway markers and was holding adjacent to the runway											
	verrun area well outside the boundary markers awaiting the landing of a glider on final approach. As the											
	axiway between the runway markers and the airfield boundary fence was only 15 metres wide, the											
	starboard wing of the motor glider was about two metres inside an extended line through the runway											
	markers. The landing glider was on final approach in a left crosswind with half to full airbrakes, the nose											
-	ust slightly lowe			-						-		
	When still in the							-	-			
	f attitude, the gl											
	leading edge of t			-			-				-	
-	xtension of the r	-					•			•	-	
	ion was capture		-		-	-						
	der prior to the											
	he glider. While											
-	the motor glider	-										
-	landing the glider. This is known as inattentional or perceptual blindness and can occur in any individual,											
-	lent of cognitive						-	-				
person fo	cuses attention	on one sti	mulus, tl	hey focus l	ess att	tentio	on on o	ther st	imuli.	Pilots need	to be aware	





Date	29-Oct-2015 Region WAGA SOAR Report Nbr S-0616								0616			
Level 1	Operational		Level 2	Airc	raft Cor	ntrol		Level	3	Hard landi	ng	
A/C Mod	el 1		Stemm	e S10		A/C N	Model	2	N/A			
Injury	Nil	Dama	age	Minor	Phase	e	Landir	ng		PIC Age	57	
The expe	rienced pilot ha	d complet	ted a com	petition fli	ght and	d arriv	ved ba	ck at tl	he air	field at high	speed and	
about 30	Oft AGL. The pilo	ot conduc	ted a stee	ep pull-up t	o regaiı	n hei	ght an	d turne	ed thr	ough 270 d	egrees to	
align with	h the operationa	l runway	with the	intention o	f landin	ng lon	ng. Uni	fortuna	ately t	he pilot tur:	ned too	
early and	l close and found	d himself	on a high	final appro	bach. Th	ne pilo	ot con	npleted	l his p	ore-landing	check,	
lowered	lowered the undercarriage and employed full airbrakes. Shortly thereafter the pilot realised he was											
overshooting and made the decision to use sideslip to reduce height rather than land in a paddock at the												
end of th	e airfield. The ai	rcraft tou	ched dov	vn diagona	Ily acros	ss the	e runw	/ay, slig	ghtly f	fast but with	n full wheel	
braking a	applied and the p	oilot was a	able to br	ing the airc	raft to	a sto	p with	in 20 n	netre	s of the bou	ndary fence.	
The pilot	provided a good	l analysis	of his act	ions and id	lentified	d the	follow	/ing hu	man	factor issues	s:	
1.	Fatigue. The pilo	ot was not	t only cor	npeting bu	t was al	lso er	ngageo	l in ma	nagei	ment of the		
	competition. Pri	or to boa	rding his	own aircrat	ft and fl	lying	the ta	sk, he l	had b	een running	the ropes	
	and assisting wit	h launch	es.									
2.	Dehydration. Th	e pilot no	ted that	he was deł	nydrate	d bef	ore th	e flight	and	his assisting	with the	
	launching only e	xacerbate	ed the iss	ue.								
3.												

- conduct a low-level finish manoeuvre for no other reason than personal satisfaction.
- 4. **Workload**. The pilot elected to conduct a low-level finish manoeuvre with the undercarriage retracted and in such a manner as to require a 270 degree turn to be made to align with the runway. This resulted in the pre-flight checks being left until the aircraft was established on final approach and the pilot being unaware that he was landing with a tailwind. On a positive note, the pilot consciously chose not to attempt to rescue the situation by starting the motor.

Date 31-Oct-2015 Region VSA SOAR Report NDr S-0618	Date	31-Oct-2015	Region	VSA	SOAR Report Nbr	S-0618
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Level 1	Operational		Level 2	Mis	cellar	eous	ous Level		3	Rope/Ring	s Airframe
										Strike	
A/C Mod	el 1		Janu	is C		A/C	Model	2	N/A		
Injury	Nil	Dama	age S	ubstantial	Pha	se	Launc	:h		PIC Age	25
embedde cable tra covering, failed the trace the	winch launch the ed in the starboa ce being lost. Ne and were longe trace and broke n flailed in the ai th braided cable	rd wing. <sup>-</sup> w traces r than the n weak li rflow and	The club were ma e 5 metre ink rebou d punche	had experie nufactured es recomme unded and e ed two small	enced from ended embeo hole	a nur rope by G Ided 5 in tł	mber of that wa FA. As a in the s ne tailp	f weak as elast a conse tarboa lane. Th	link b ic, dio quen rd win ne clu	reaks result d not have a ce, when th ng. The 6.5 r b has replac	ing in the hose pipe e weak link metre long ced their

Date	2-Nov-2015	Regior	า	VSA		SOA	AR Repo	ort Nbr		S-0644	
Level 1	Operational		Level	2	Fligh	t		Level	3	Aircraft pr	eparation
	Preparation/Navigation										
A/C Model 1     SZD-50-3 "Puchacz"     A/C Model 2     N/A       Injury     Minor     Damage     Substantial     Phase     Ground Ops     PIC Age     54											
Injury	Minor	age	Pha	ise	Grour	nd Ops		PIC Age	54		
While the	e pilots were pre	eparing fo	r launc	ch the unrestr	ained	cano	py was	blown	shut	by the wind	and struck
the laund	ch assistant on th	ne foreari	n. The	canopy persp	ex wa	is cra	cked ar	nd the g	glider	was withdr	awn from
service p	the launch assistant on the forearm. The canopy perspex was cracked and the glider was withdrawn from service pending an expensive repair. This incident highlights the importance of ensuring canopies are										
properly restrained at all times.											

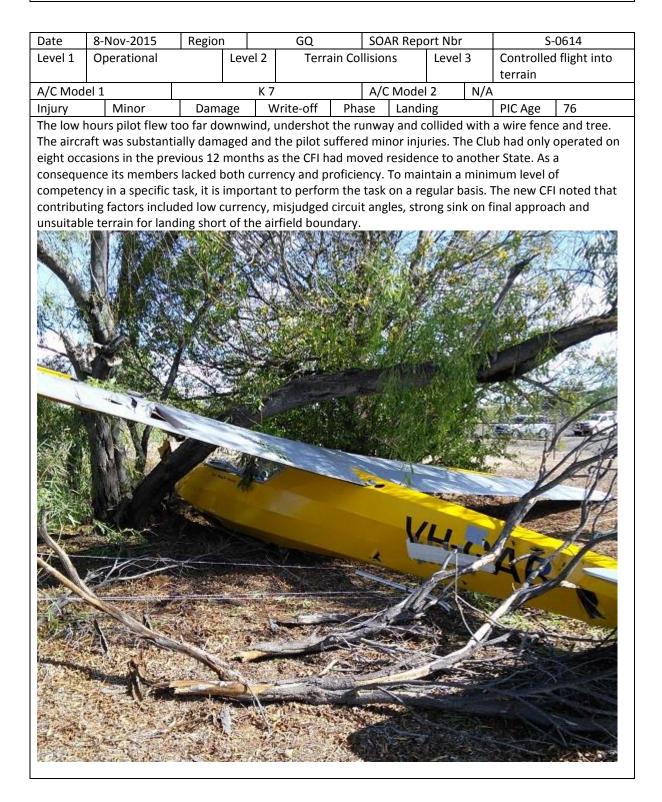
Date	4-Nov-2015	Region		VSA		SOA	AR Repo	ort Nbr		S-	0611	
Level 1	Operational	L	evel 2	Airo	raft Co	ontro	-	Level	3	Hard landi	ing	
A/C Mod	el 1		Astir C	S 77		A/C	Model	2	N/A	L.		
Injury	Nil	Damage	Su	bstantial	Pha	ase	Landi	ng		PIC Age	74	
The low h	nours pilot flared	too high ar	d did r	not recogn	ise the	e high	n rate o	f desce	nt. Tł	ne aircraft to	ouched down	
very heav	ery heavily in a two point attitude and the undercarriage collapsed. The undercarriage assembly was											
substanti	substantially damaged. Prior to launch the pilot found his seating position to be low and he could not see											
directly a	directly ahead as the compass mounted atop the instrument panel blocked his view. He did not use any											
additiona	al cushions and e	xperienced	difficul	ty adjustir	ng the	rudd	er peda	ls. Add	ing to	o his proble	ms, he was	
carrying	a hand-held radio	o as the airc	raft rad	dio was un	servic	eable	e. Durin	g flight	the p	oilot misjudg	ged his	
height, g	ot low and enter	ed a right-h	and cir	cuit on ba	se leg.	The	pilot's <b>(</b>	CFI attri	ibute	d the accide	ent to	
inexperie	nce and an unus	ually low se	ating p	osition. Th	nis acc	ident	highlig	hts the	e impo	ortance of p	roper	
cockpit e	rgonomics. Pilots	s need to be	seated	d in a way	that n	ot on	ily ensu	res cor	nfort	but also all	ows them to	
operate t	he aircraft contr	ols and prov	ide th	e best visu	al per	spect	ive out	side th	e coc	kpit. Where	necessary	
pilots sho	ould use cushions	s made from	energ	y-absorbii	ng foai	m to	adjust 1	heir se	ating	position.		

Date	7-Nov-2015	Regior	ı	GQ		SOA	R Repo	ort Nbr		S-	0615
Level 1	Operational		Level 2		Airfrar	ne		Level	3	Other Airf	rame Issues
A/C Mod	el 1		Nimb	us 2		A/C	Model	2	N/A	L.	
Injury	InjuryNilDamageMinorPhaseLandingPIC Age48During an aerotow launch over rough ground the pilot noticed the handbrake lever on the control column										
moved fr revealed lever to r	n aerotow launcl reely with the vik the inner wire o rub against the ty d serviceable dur	oration, a If the Bow yre result	nd upon l vden Con <sup>-</sup> ing in dar	anding the trol Cable I nage to the	whee had br e tyre	l bral oken wall.	ke did r at the The pil	iot wor wheel. ot note	k. Po This l d tha	st-flight inve nad caused t t the wheel	estigation the actuating brake



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wire fatigue.





Date	8-Nov-2015	Region	1	WAGA		SOA	R Repo	ort Nbr		S-	0622
Level 1	Airspace		Level 2	Aircra	aft Sep	arati	on	Level	3	Near collis	ion
A/C Mod	el 1	ŀ	KR-03A Pi	uchatek		A/C	Model	2	PA-2	25-235/A6	
Injury	Nil	Dama	age	Nil	Pha	ase	Landi	ng		PIC Age	61
The glide	r pilot had to tal	ke avoidir	ng action	on final ap	proacl	h whe	en a tov	v plane	land	ed across hi	s path. The
club was	conducting air e	xperience	e flights fo	or the AAF	C and	had b	een op	erating	g on r	unway 18 w	hich
intersect	s with runway 2	8 in an "L'	' configui	ration. The	comn	nand	pilot w	as aske	d to d	conduct one	final air
experien	experience flight and land on the non-duty runway 28 as the aircraft would no longer be needed and could										
be easily	be easily put away. After a short flight the command pilot joined circuit and radioed his intention to conduct										
a landing	a landing on runway 28. During his downwind leg the glider pilot heard the tow plane call downwind for										
runway 1	.8. The glider pile	ot sighted	the tow	plane estal	blishe	d on a	a late d	ownwi	nd to	his right an	d lower. The
•	ot called turning										
	ay 18. The glider									-	-
-	ed that he would		-								
clearance	e from the tow p	lane cros	sing in fro	ont of him.	The to	ow pi	lot subs	sequen	tly ad	lvised that h	is headset
was not f	unctioning corre	ectly and	that he th	nought he h	neard	the g	lider pi	lot was	also	landing on r	unway 18.
	The headset is an active noise reduction type and it is thought the pilot may not have turned it on or the										
battery n	nay have run flat	, making	it less eff	ective at su	uppres	sing	noise; e	especia	lly if i	t does not fi	it tightly
against tl	ne head.		14		100	-			1000 000		



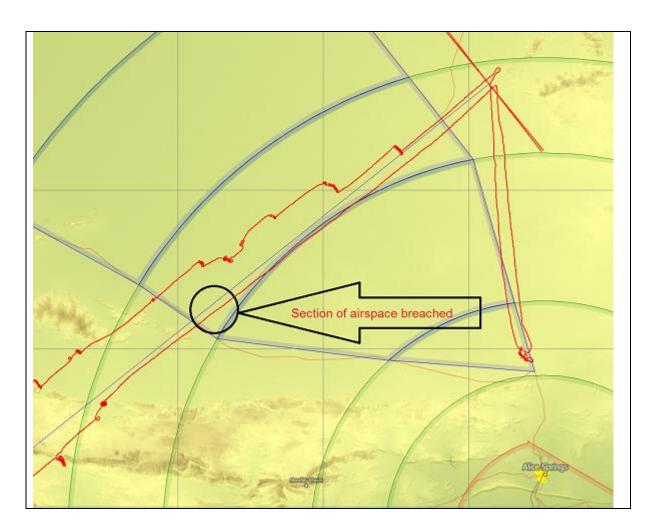
Date	8-Nov-2015	Region		VSA	SOAR Repo	ort Nbr		S-0631
Level 1	Consequential I	Events	Level 2	Low Cir	cuit	Level	3	Low Circuit
A/C Mod	C Model 1 DG-5		G-500 Ela	an Orion	A/C Model	2	N/A	



Injury	Nil	Damage	Nil	Phase	Landing	PIC Age	18							
The solo pilo	t misjudged tl	ne break-off p	oint, entered 1	the circuit l	ow and flew a very	low base an	id final							
approach. Th	ne pilot had pr	ogressed to so	olo quickly and	d at the tim	e of the incident ha	id a total of	39 glider							
flights. After	releasing from	n tow at 2,300	)ft AGL, the pil	lot focussed	d on finding lift as h	e was keen	for a good							
flight. Condi	light. Conditions were not ideal and the pilot eventually decided to discontinue his search for lift and return o the airfield. The pilot encountered stronger 'sink' than he anticipated and considered flying a modified													
to the airfiel	to the airfield. The pilot encountered stronger 'sink' than he anticipated and considered flying a modified													
'right-hand'	'right-hand' circuit but was focussed on maintaining the correct circuit direction due to other traffic and													
decided to jo	oin a midfield	crosswind befo	ore turning a d	close down	wind. Witnesses no	ted the glid	er to be							
extremely lo	w on downwi	nd and during	the base and	final turns.	The pilot turned or	ito base leg	abeam the							
airfield bour	idary and com	pleted an une	ventful landin	g alongside	the launch point. F	Potential cau	usal factors							
include inex	perience, high	workload, de	cision biases, o	optimism b	ias and goal fixatior	n. The pilot's	s CFI noted							
that the pilo	that the pilot had recently commenced power flying and this may have influenced his decision to fly a													
standard cire	standard circuit when a modified circuit was the safer option. The pilot will undergo a period of													
consolidatio	n with an insti	ructor.												

Date	11-Nov-2015	Regior	1 I	NSWGA		SOA	AR Repo	ort Nbr		S-	0638
Level 1	Airspace		Level	2 Airspac	e Infri	ngen	nent	Level	3	Airspace Ir	nfringement
A/C Mod	el 1		DG-1	L000M		A/C	Model	2	N/A		
Injury	Nil	Dama	age	Nil	Pha	ise	In-Flig	ght		PIC Age	51
The pilot	was undertakin	seater record	d attei	mpt f	rom Bo	ond Spr	ings t	o Ularu and	the Olgas.		
The pilot flew west of Alice Springs to remain outside controlled airspace. After 7 hours flying and with											
approximately 100kms to his destination, the pilot established final glide. The airspace at Alice Springs is											
controlle	d above 11,500 i	ft when t	he Tow	er is active, a	nd rev	verts	to FL18	30 whei	n the	Tower close	es. While the
Tower clo	osed at 0830z, th	ie pilot m	istaken	ly believed it	close:	d a h	alf hou	r earlie	r. As	a consequer	nce, the
	ntered controlle	-			-		-				
overdeveloping sky and fatigue may have contributed to his oversight. He also noted that as he was											
monitori	ng the Area freq	uency ab	ove 8,5	00ft and not	the To	ower	freque	ncy, rad	dio tra	affic did not	prompt him
to question the tower hours.											





Date	14-Nov-2015	Region	n	VSA		SOA	AR Repo	ort Nbr		S-	0617	
Level 1	Operational		Level 2	Airc	raft C	ontro		Level	3	Control iss	ues	
A/C Mod	el 1		LS8-	-18		A/C	Model	2	Pipe	er PA-25-235		
Injury	Minor	Dama	Damage Nil				Launc	h		PIC Age	46	
A tow plane towing a heavily ballasted glider became airborne and climbed out at too low a speed for the												
ballasted glider. The glider pilot could not match the tug's climb and released just after separation. The												
-	ided heavily and					-	-			-	-	
This is us	ually governed b	y the win	ıg-loadin	g and not t	he we	ight c	or size c	of the g	lider.	Gliders with	n a heavy	
wing-load	wing-loading will need to be towed much faster than lightly loaded gliders and tow pilots need to get used											
to the ra	to the range of minimum speeds of the gliders they tow, and above all to ask if they don't know. Tow pilots											
should always fly the speed requested by the glider pilot.												

Date	14-Nov-2015	Regior	n		NSWGA		SOA	R Repo	ort Nbr		S-0628	
Level 1			Leve	el 2	Terra	in Co	lisior	ıs	Level	3	Collision with terrain	
A/C Mod	el 1	ASW 24E				A/C Model 2			N/A	i.		
Injury			Damage Substantial			Pha	ase Outlanding				PIC Age	56
This experienced pilot got low toward the end of a competition flight and elected to outland and then self- retrieve. The pilot configured the aircraft for a landing and, after surveying the selected paddock, joined												



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circuit. When on late final approach and about 50ft AGL the pilot noticed small rocks (100-150mm in diameter) hidden in the short grass with some larger rocks interspersed. The pilot believed he had successfully avoided the larger rocks during his landing roll but later found the disc brake rotor on the main undercarriage had struck a rock. This caused the rotor to distort and loaded one of the rear-facing support arms sufficient to bend a small locating bracket where it attaches to the rear wall of the undercarriage box. The glider was recovered by trailer. The pilot stated that although the grass was quite short, the colour of the rocks and lighting conditions at the time made them hard to see from above.

Date	15-Nov-2015	Region		VSA		SOA	R Repo	ort Nbr		S-	0619
Level 1	Airspace		Level 2	Aircra	ift Sep	aratio	on	Level	3	Near collis	ion
A/C Mod	el 1		Twin A	Astir		A/C	Model	2	Pipe	er PA-25-235	5
Injury	Nil	Dama	age	Nil	Pha	se	Launc	h		PIC Age	
At approx	ximately 16:30 tl	ne tow pla	ane took	off from ru	inway	08L v	vith a g	lider in	tow)	. The combi	ination flew
through	strong lift so the	tow pilot	extende	d the upwi	nd leg	befo	re turn	ing ont	o a no	ortherly hea	iding. When
the comb	the combination was at a height of about 1000ft AGL the tow pilot spotted at glider flying in a south easterly										
direction	direction on a converging course approximately 150 – 200 meters away. The tow pilot immediately levelled										
out and t	out and turned left, and once clear of the converging glider turned to the right again. The tow pilot was										
about to	release the glide	r on tow	when its	pilot, havir	ng seei	n the	potent	tial con	flict, ı	released and	d broke
sharply to	o the right. The c	onflicting	glider pi	lot, who w	as rela	tivel	y inexp	erience	ed, sa	w the comb	ination at
the last n	ninute and turne	d left to p	provide c	learance. A	All thre	e air	craft co	omplete	ed the	eir flights wi	ithout
further ir	cident. The tow	pilot stat	ed that h	e was well	rested	and	not su	ffering	from	either fatig	ue or
	ion. He believes	•								-	•
glider ear	lier. He also me	ntioned th	hat he wa	as too slow	to rele	ease	the glic	ler on t	ow a	nd believed	he should
have don	have done so in conjunction with taking avoiding action. While all the aircraft carried working Flarm units,										
the confl	icting glider did ı	not regist	er on the	tow pilot's	s Flarm	n. Thi	s incide	ent high	light	s the import	ance of
	maintaining a good lookout scan and reinforces that technology problems can compromise alerted see-and-										
avoid.											

Date	15-Nov-2015	Region	1	GQ		SOA	R Repo	ort Nbr		S-0621	
Level 1	Operational		Level 2		Airfrar	ne		Level	3	Landing gear/Indic	ation
A/C Mod	el 1		Discus	s-2c		A/C	Model	2	N/A		
Injury	Nil	Dama	age	Minor	Phase Outlar			nding		PIC Age	45
and an o complete minimise slid for a	cross country flig utlanding became ed his pre-landing the landing roll a couple of metres there was little o	e inevitat g checks t and in the s. Investig	ole. The p out on lar e last par gation rev	ilot selectending the p t of the lar vealed the	ed wha baddoo nding r under	at he k sur oll th carria	though face wa e unde age mee	it to be as roug rcarriag chanisn	a goo h. Bra ge col n was	od paddock aking was us lapsed and incorrectly	and sed to the fuselage adjusted,

Date	17-Nov-2015	Regior	۱	NSWGA		SOA	AR Repo	ort Nbr		S-	0620
Level 1	Operational		Level 2 Terra		ain Co	lisior	ıs	Level	3	Controlled flight into terrain	
A/C Mod	el 1		Pi	k 20		A/C	Model	2	N/A		
Injury	Minor	Dam	age	Write-off	Pha	ise	Outla	nding		PIC Age	73
At about	At about 15:35 Eastern Daylight Time on 17 November 2015, while on the third leg of a cross-country task,										



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the pilot got low over the Pillaga Forest and was unable to glide clear. The pilot conducted a controlled crash into the tree canopy and suffered only minor injury. He was able to communicate with a passing aircraft, whose pilot relayed back to the gliding base and the emergency services were contacted. The aircraft descended to the forest floor and the pilot was able to extricate himself from the wreckage. The Newcastlebased Westpac Rescue Helicopter was deployed to the scene to rescue the pilot because the terrain was inaccessible for emergency crews on the ground. The pilot did not require hospitalisation and was flown back to the airfield from which he had departed earlier that day.



The command pilot was in current flying practice and had completed a GFA Annual Flight Review on 3 November 2015. As an experienced competitor, the pilot was competing in the 35th Australian Club and Sports Class National Gliding Championships being held at Lake Keepit aerodrome. The accident occurred on the 8th competition day and the pilot had flown about 25 hours during the preceding seven competition days and one practice day. The day's task was an Assigned Area Task with 2.75 hours task time, comprising three cylinders – the first turnpoint had a 30km radius, the second turnpoint had a 60 km radius and the final turnpoint had a 50 km radius. Task length varied between 158Km and 611km, subject to where the pilot flew within the assigned areas. The pilot reported good cumulus cover, which he found difficult to work due to broken lift and good climbs were hard to find. The pilot advised that immediately after starting he accidentally turned off his flight navigation program on his PDA. While he was able to restart the program, the software had lost track of his start time and so he had to manually assess his progress to optimise the flight. Unfortunately the pilot made a one-hour error in his mental arithmetic when he set up the tactical navigation, and the shortened task the computer had calculated initially surprised and confused the pilot, which led him to manually reassess his track to make the best of his poor tactical situation. The pilot found a good climb near the second turnpoint and at the north western edge of the Pillaga Forest and climbed to 5,800 ft before heading towards the third turnpoint. The pilot noticed a series of four 'active looking'



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cumulus on track and assessed he could glide to the far side of the forest at best LD if he did not encounter any lift. The pilot flew over the forest but was unable to connect with any lift and found himself in a position where he was unable to glide clear. Buoyed by the presence of working cumulus in the distance, the pilot pushed on and applied himself to working lift and assessing his landing options. Between 2,000ft and 600ft AGL the pilot encountered weak lift but found himself pushing on. At a height above ground of about 300ft the pilot encountered a weak thermal. After trying to climb in it for five minutes, the pilot made the decision that continuing was futile. The pilot broke off the flight, lowered the undercarriage and flaps, and executed a controlled crash between the trunks of two trees at low energy. The glider came to a jarring halt, 20 feet or so from the ground, and then dropped to the ground in a sideways sliding motion.



The pilot advised post-flight that he experienced consternation to his contest situation that led to a sense of needing to "catch up". He believes he made no conscious decision to proceed on track over the scrub, rather that it was a continuum of a difficult situation in which he did not consider there to be an undue danger but merely a challenge. His assessment that he could glide to the far side of the forest at best LD if he did not encounter any lift was within his risk tolerance, and his flight path and thermal search patterns indicate a gradually worsening risk situation. He felt that his judgement and skill level were adequate at that time. He further did not believe that fatigue was an issue as he practices a fatigue recovery routine each evening,



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which included rehydration, avoiding alcohol and adequate sleep. The pilot noted that, while flying in a contest requires the pilot to test the limits, he had allowed himself to become unduly distracted by an early mistake that led him to push on into a deteriorating situation that he was subsequently unable to handle adequately. Competitive pilots are always aware of the need to keep pushing on. This can lead to a series of poor or sub-optimal decisions based on goal achievement and impatience, which then leads to increasing frustration when things don't go as well as they would like. Pilots must be self-aware and recognise when they are becoming frustrated. Be careful, be methodical, and double-check all your decisions. Competition pilots should also mentally separate 'tactical risk' from safety risk. Having defined risk thresholds or risk tolerance, go-nogo / divert / outland criteria and sticking to those limits is important in planning. It might be smart to ignore a weak thermal and push on to a better looking thermal - albeit getting a bit lower - as long as there are good paddocks around. However, NEVER defer the decision to safely land out in the hope that another thermal will appear because it generally won't. The pilot's decision to break off low-level thermalling and execute a controlled low energy landing, with the glider correctly configured and controlled all the way into the tree canopy, was very sound in that it reduced the consequences of this risk exposure. Post-accident actions and communications were appropriate to this remote and inaccessible environment.

Date	17-Nov-2015	Regior	n	WAGA		SOA	AR Repo	ort Nbr		S-	0726
Level 1	Operational		Level 2	Airc	raft Co	ontro	-	Level	3	Hard landi	ng
A/C Mod	el 1		DG-1(	000S		A/C	Model	2	N/A		
Injury	Nil	Dama	age	Minor	Pha	ise	Landi	ng		PIC Age	67
Pilot under instruction landed heavily resulting in a cracked tailwheel and deflated tyre, and damage to the									nage to the		
nose wheel fairing. Investigation suggested that the student pilot approached with a high rate of descent											
and misjudged the round out; pulling back sharply on the control column leading to the tail striking the											
-	ith considerable		-	-							-
-	in the nose whe										
	e in time. This in	-	-	-					-		-
-	during the critical stages of flight, which in this case would include having one's right hand close to stick, feet										
towards rudder and the left hand in very close reach to airbrakes in order to react quickly to a deteriorating											
situation.											

Date	18-Nov-2015	Regior	1 I	NSWGA		SOA	AR Repo	ort Nbr		S-	0625
Level 1	Operational		Level 2	Airc	raft Co	ontro		Level 3		Wheels up landing	
A/C Mod	el 1		Discu	s b		A/C Model 2			N/A		
Injury	Nil	Damage Minor			Pha	nase Landing				PIC Age	59
successfu retrieve go throug flying for	long cross count ully landed in a p which was condu gh his pre-landin over 6½ hours a ng with a 5 to 8 k	addock so cted safe g checks nd fatigu	ome 21 kr ely. Upon and lande e may ha	ns from the return to the d with the ve affected	e hom he hor unde l his ju	ie aei ne ai rcarri dgen	rodrom irfield t iage ret nent. H	ie. The he pilot tracted	pilot : t ente . The	arranged fo red circuit k pilot stated	r an aerotow out did not he had been

Date	21-Nov-2015	Regior	า		WAGA		SOA	AR Repo	ort Nbr		S-	0629
Level 1			Level 2 R		Run	way E	vent	ts Level 3		3	Runway in	cursion
A/C Mod	el 1	SZD-50-3 "Puc			uchacz"	A/C Model 2			Jabi	ru		
Injury	Nil	Dam	Damage Nil Phase Landing PIC Age 75							75		
A RA-Aus	A RA-Aus registerd Jabiru entered and backtracked the operational runway while a glider was on final											



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approach. The Jabiru pilot did not respond to requests by the glider pilot to vacate the runway until the glider was on late final. The incident was referred to RA-Aus but the Jabiru pilot did not respond to subsequent communications and is believed to be no longer operating at the site.

Date	21-Nov-2015	Regior	n WAGA		SOAR Report Nbr				S-0630		
Level 1	vel 1 Airspace		Level 2	Aircra	aft Sep	arati	on	Level	3	Near collision	
A/C Mod	A/C Model 1		Jabiru			A/C Model 2 N			N/A	L.	
Injury	Injury Nil		nage Nil		Pha	ase Landi		ng		PIC Age	
A RA-Aus	registered Jabir	u continu	ied final	approach to	o an o	ccupi	ed runv	way pa	ssing	over aircraft	t and people
at a very	low height and l	ow airspe	eed befo	re conducti	ng a 'g	o-arc	ound' p	rocedu	re. Tł	ne incident v	was referred
to RA-Au	to RA-Aus who counselled the pilot and requested the pilot undertake a flight review. The pilot later										
informed	nformed RA-Aus that they had sold their aircraft and ceased flying.										

Date	22-Nov-2015	Region		VSA		SOA	R Repo	ort Nbr		S-	0623
Level 1	Airspace		Level 2	Aircra	aft Sep	arati	on	Level	3	Near collis	sion
A/C Mod	el 1	D	G-500 Ela	an Orion		A/C	Model	2	SZD	-50-3 "Puch	acz"
Injury	Nil	Dama	ige	Nil	Pha	ase	Landi	ng		PIC Age	63
A glider ( approach manoeuw comman to turn o leg, and and thou low and	Puchacz) turned n to land on runw vred to land on tl d pilot of the Puc nto base leg earl had not heard ar ught was aligned may have been a ance are being flo	vay 'grass ne centre chacz adv y. He adv y radio ca with the c contribu	right'. Th runway. ised that ised that alls from centre run ting facto	ne comman The two gl his aircraft he did not its pilot. He nway. The pr. At busy	nd pilo iders t t had f see th e also radio trainir	t of ti touch lown ne DG misju volun ng air	he DG- ed dov throug 1000 u dged th ne setti fields v	1000 as vn almo h stron intil he ne appr ng in th vhere a	ssume ost sir og sinl was e roach ne Pue ircraf	ed control a nultaneous k and his stu established path of the chacz was for t of varying	nd ly. The udent elected on the base DG-1000 ound to be
	is does not give p		-	-	airspa	ace of	fother	aircraft	t, occa	asional erro	ors will be
made an	made and pilots must remain vigilant at all times.										

Date	23-Nov-2015	23-Nov-2015 Region		VSA			AR Repo	ort Nbr		S-0624	
Level 1	1 Consequential Events		Level 2	Lo	ow Cir	cuit		Level	3	Low Circuit	
A/C Mod	A/C Model 1			Hornet			A/C Model 2				
Injury	Nil	Dam	age	ge Nil Ph			ase Landing			PIC Age	46
The glide	r pilot flew a 'lov	v level' fi	nish man	oeuver bel	ow 50	feet	over a	numbe	r of p	eople, putti	ng both
himself a	himself and other people at risk. The manoeuver was flown in direct contravention of GFA Operational										
Regulatio	Regulations and the pilot has been counselled by his CFI.										

Date	24-Nov-2015	Regior	1		WAGA		SOA	AR Repo	ort Nbr		S-	0626
Level 1	Operational		Leve	12	Airc	raft Co	ontro		Level	3	Hard landi	ng
A/C Mod	el 1		Piper	PA-2	25-235		A/C	Model	2	N/A	L.	
Injury         Nil         Damage         Substantial         Phase         Landing         PIC Age         68												
-	During the WA State Championships the tow plane landed heavily and was substantially damaged. The tow plane was one of three Piper PA25 Pawnees launching gliders and was being flown by a low hour's pilot who											
					-	-			-		•	
	was relatively new to towing. Just as the pilot flared for landing and about three feet off the ground a strong											
crosswind gust lifted the left wing and the aircraft touched down on the right undercarriage while going												
sideways	sideways. The shock absorber end fittings collapsed resulting in the undercarriage leg folding up and the											



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aircraft slid off the runway. During the later stages of the ground slide the aircraft nosed over, suffering a prop strike. The pilot reported strong thermal conditions, with gusting winds and a crosswind component varying up to 90 degrees.

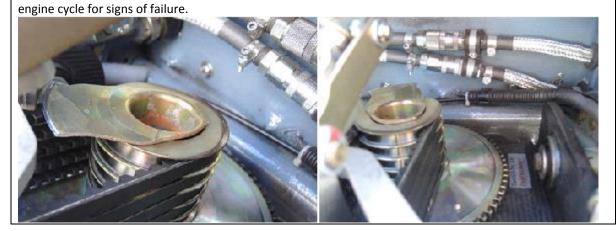


Date	28-Nov-2015	Region	1	NSWGA		SOA	R Repo	ort Nbr		S-	0627
Level 1	Operational		Level 2	Aircr	aft Co	ontro		Level	3	Hard landi	ng
A/C Mod	el 1		Astir	CS		A/C	Model	2	N/A		
Injury	Minor	Dama	age Su	ubstantial	Pha	se	Landi	וg		PIC Age	65
The glide	r launched in rel	atively be	enign wea	ther condit	ions f	for a s	short lo	ocal flig	ht tha	at was well v	within the
capabiliti	es of its pilot. Af	ter abou	t one hou	ır, the pilot	decid	led to	break	off and	l land	l on the ope	rational
runway.	runway. On late downwind the pilot was advised by the Duty Pilot that his aircraft was not required for										
further fl	further flights, so he made a broadcast that he would land on the cross strip to be close to the hangar. The										
pilot exe	pilot executed a 180degree turn and rolled out on a short base for the cross strip. Upon turning final the										
pilot saw	a glider being to	wed onto	o the righ	t-hand side	of th	e run	way in	the are	ea he	planned to	finish his
landing r	oll. He assessed t	hat his b	est optio	n was to lan	nd sho	orter	as ther	e was a	risk (	of ground lo	ooping in
long gras	s if he landed off	the runv	vay. With	his focus o	n the	glide	r and v	ehicle	on th	e ground ah	ead the pilot
did not a	dequately monit	or his airs	speed, Fli	ght recorde	er data	a indi	cates t	he airci	raft sl	owed to be	tween 40 to
45kts soc	on after the final	turn whe	n the airl	orake was d	leploy	ed a	n <mark>d re</mark> m	ained i	n this	speed rang	e for most of
the final	approach. When	the pilot	commen	ced his rou	nd-ou	it, the	e aircra	ft stalle	ed an	d rapidly de	scended
several m	netres to the gro	und. The	pilot did	not close th	ie airt	orake	s in res	ponset	to the	e high desce	ent rate and
the aircra	aft landed heavily	/. The air	craft was	substantial	ly dar	nage	d and t	he pilo	t suff	ered minor	injury.
Causal fa	ctors include: hig	gh worklo	ad; inade	equate airsp	peed r	nonit	oring;	distract	tion ii	n the circuit	from non-
operation	nal radio calls; th	e pilot's d	decision t	o change ru	unway	/s for	convei	nience	at a la	ate stage in	the circuit;
potential	potential low level wind shear; and landing on an occupied runway.										





Date	30-Nov-2015	Regior	า	VSA		SOAR Rep	ort Nbr		S-	0641
Level 1	Technical		Level 2	Powerp	lant/Pr	opulsion	Level	3	Propeller r	malfunction
A/C Mod	el 1		Arcus	M		A/C Mode	el 2	N/A		
Injury	Nil	Dam	age Su	ubstantial	Phas	e In-Fl	ght		PIC Age	67
to 'park' extended drum is c Group, A progress	tting down the e the propeller in t I, it was found th urrently being u erospace Divisio ed either side to was found on t	he vertic at the pr ndertake n. The pr wards the	al positio opeller bi n by a Foi eliminary e rim, witl	n manually rake drum rensic Engii investigati n final rupt	<ul> <li>After</li> <li>had dis</li> <li>neering</li> <li>on indi</li> <li>ure sta</li> </ul>	an unever integrated Team at cates fatig rting relat	ntful lan d. A fore Defence gue occu ively clo	ding v ensic e Scier urred ose to	with the eng examination nce and Tecl near the hu the rim. Mi	gine fully of the failed hnology b and nor
corrosion was found on the fatigue fracture surfaces, indicating more than a short time from crack initiation to final failure. The Type Certificate holder has been advised and is in receipt of the preliminary report. While no other failures of this kind have been reported through the GFA reporting system, Airworthiness Alert 2015-4 has been issued alerting operators of Arcus aircraft to examine the brake system after each										





Date	1-Dec-2015	Regior	1	NSWGA		SOAR Report Nbr		S-0660			
Level 1	Operational		Level 2	Grour	nd Ope	eratio	ons	Level	3	Other Gro	und Ops
										Issues	
A/C Mod	el 1		ASW	28		A/C	Model	2	LS8-	18	
Injury         Nil         Damage         Minor         Phase         Ground Ops         PIC Age         24									24		
It was the	It was the first competition day of the Junior World Gliding Championships. After launching several gliders it										
became o	became obvious to the Organisers that the 'slow moving front' was in fact moving in more quickly than										
predicted	d and the day wa	s cancelle	ed. Mid-a	afternoon w	/ind gu	usts u	ip to 50	) knots	were	experience	d at the
airfield. I	n the tie down ar	ea a glid	er that w	as not secu	irely ti	ed do	own wa	is blow	n bac	kwards into	another
glider cau	using minor dama	age to bo	th aircra	ft. Gliders p	barked	in th	ne open	should	l be s	ecurely tied	down at the
nose, wir	ngs and tail, and o	control si	urfaces s	ecured (use	chock	ks an	d/or ha	rness)	to pre	event wind o	damage.
Quality r	Quality rope should be used and sturdy tie-down anchors should be driven well into the ground at a 45										
degree a	ngle with the hea	ıd pointiı	ng away '	from the di	rectior	n of p	oull. The	e strong	gest c	onfiguratio	n is where
the rope	he rope is also at a 45 degree angle.										

Date	2-Dec-2015	Regior	Region NSWGA			SOAR Report Nbr				S-0657	
Level 1	Operational		Level 2	vel 2 Ground O		eratio	ons	Level	3	Ground handling	
A/C Mod	el 1	LS8-18				A/C Model 2 N/			N/A		
Injury	Nil	Dama	image Minor			ase	e Ground Ops			PIC Age	
A strong	gust of wind rota	ted the g	glider w	hile it was b	eing to	owed	to the	launch	point	and the to	w-out bar
detached	detached from the tail dolly. The glider continued to rotate until the trailing edge of the port wing caught										
the rear of	the rear of the tow-out vehicle. The port aileron was split along trailing and suffered delamination.										

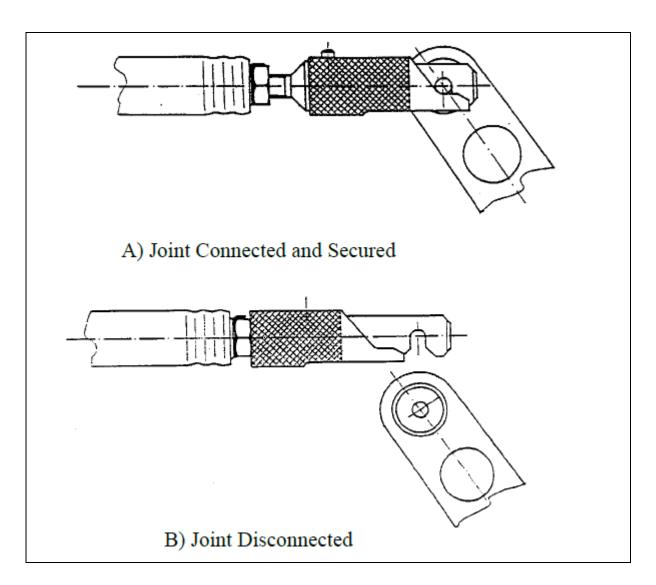
Date	5-Dec-2015	Region		GQ		SOAR Report Nbr				S-0632	
Level 1	Operational	Level 2 Airframe			Level	3	Doors/Can	opies			
A/C Mod	el 1	Duo Discus				A/C	Model	2	N/A		
Injury         Nil         Damage         Minor         Phase         Ground Ops         PIC Age         79								79			
overhead outboard arms are	e crew were stra I. When he open I, but was caught intended to fail to replace the h	ed the ca be one c as part of	nopy aga of the gro <sup>-</sup> the canc	in the forv und crew a py jettisor	vard (c assistin n syste	arbo ng. No	n-fibre o furthe	) hinge er dam	arm f age re	ailed. The c esulted. The	anopy fell two hinge





Date	5-Dec-2015	Region		VSA		SOA	AR Repo	ort Nbr		S-	0633	
Level 1	Operational		Level 2		Airfrar	ne		Level	3	Other Airfi	rame Issues	
A/C Mod	el 1		PW-5 "S	myk"		A/C	Model	2	N/A			
Injury	Nil	Dama	age	Nil	Pha	ase	Grour	nd Ops		PIC Age	55	
sliding sle	e Daily Inspection eeve with a locking pip	ng pin to	connect t	he control	linka	ges of	f the ail	erons a	and ai	ir brakes. Th	e Inspector	
Inspectio	dentified the locking pin may not have been properly engaged upon its return to service from an Annual nspection the previous weekend, although he could not discount that someone subsequently unlocked it during the intervening week. Both inspectors involved in signing out the aircraft believe that they checked											
and are c	ection and were conversant with	the partic	ular conti	ol hook up	o syste	em, n	either o	could ru	ule ou	ıt an oversig	ht, although	
and cann	the inspector who undertook the dual control check recalls actually looking at the connection using a torch and cannot understand how it could have been missed. Maintenance is a major cause of system failures and this incident highlights the importance of conducting a thorough Dual Inspection before releasing the											
	o service. It also For further readi ance".				-	-	-	-	-		-	





Date	6-Dec-2015	Region		VSA		SOA	AR Repo	ort Nbr		S-	0639
Level 1	Operational		Level 2	Run	iway E	vents	5	Level	3	Runway in	cursion
A/C Mod	el 1	D	G-500 Ela	an Orion		A/C	Model	2	SZD	-50-3 "Puch	acz"
Injury	Nil	Dama	ige	Nil	Pha	ise	Landi	ng		PIC Age	76
The glide	rs were operatir	ng at a bus	sy site on	a day whe	re cor	nditio	ns wer	e not so	barab	le. Visibility	was
diminishe	ed due to smoke	haze and	high leve	el cloud. As	s the D	G505	5 was o	n dowr	nwind	l, a Puchacz	landed on
the 'grass	s right' runway a	nd anothe	er glider l	anded on t	the ce	ntre i	runway	. The 'g	grass l	eft' runway	was
occupied	occupied by several gliders awaiting launch. The pilot of the DG505 was monitoring the situation and noticed										
the Puch	acz being pushe	d off to th	e side, th	ereby allow	wing s	uffici	ent roc	om to la	and 'g	rass right'. A	s the DG505
turned fi	nal, a golf cart p	ulled out i	n front o	f the Pucha	acz an	d con	nmence	ed to to	ow it k	back to the l	aunch point.
With the	runway now oco	cupied, th	e pilot of	the DG505	5 close	ed the	e airbra	kes and	d ove	r flew the Pu	uchacz to
land safe	ly further down	the runwa	ay. The p	ilot in com	mand	of th	e Pucha	acz adv	/ised	he had not s	seen the
DG505 a	though the golf	cart drive	r said he	had had se	en it l	out di	id not r	nentior	n it to	anyone and	d proceeded
to exped	o expedite the retrieve of the Puchacz to clear the runway. This incident highlights the importance of										
clearing t	he airspace befo	ore movin	g a glider	across a ri	unway	, and	l for all	memb	ers of	the crew to	ensure
there is a	dequate separa	tion befor	e crossin	g the appro	oach p	oath c	of an ai	rcraft.			



Date	6-Dec-2015     Region     GQ     SOAR Report Nbr     S-0634       Technical     Level 2     Powerplant/Propulsion     Level 3     Engine failure or									-0634		
Level 1	Technical		Level 2	Powerp	lant/P	ropulsion	Level	3	Engine fai	lure or		
									malfuncti	on		
A/C Mod	el 1		ASK-2	1Mi		A/C Mode	12	N/A				
Injury	Nil	Dama	age	Nil	Pha	se Laun	ch		PIC Age	56		
The self-l	aunching sailpla	ne depar	ted the rເ	inway norn	nally f	or a training	g flight a	and th	ne student	pilot		
commen	ed a left hand t	urn at ab	out 300ft	to fly para	llel to	the cross st	rip. Sho	ortly a	fterwards t	he instructor		
noticed t	he engine surgir	ng followe	ed by an ι	incomman	ded re	duction in e	engine r	evs. 1	The instruct	or took		
control a	control and conducted a modified circuit onto the cross strip. The engine stopped during the final approach.											
	The aircraft landed safely with the engine deployed. The pilots noted that prior to flight the battery voltage											
	vas checked at 12.7 to 12.8V and the battery voltage at the start of roll for the incident flight was 12.8V with											
	battery light extinguished. The battery voltage after landing was 7.6V and it was determined that the aircraft											
-	generator was not providing charge to the batteries. The engine shut down due to the battery's voltage											
-	to a level where				-		•					
	inated intermitt	•		•	-		•		• •			
	phate (LiFePO4)			-			•					
	play and the ins			, 0			, 0					
	ake-off and the s	-				-	-	-	-	-		
	. The battery lig							-				
	his caused the i				•				-			
	nave a long cycle			•		-				•		
	wever, when the			-		• •			•	• .		
	ot known to the											
	ory voltage check		-				-			-		
	tery warning lig			-		-			-	-		
	t. Causal Factors											
	vilot's display; th			-		•	ISUTICI	ent Kr	iowieage o	I LIFEPO4		
Dattery C	haracteristics; a	nu batter	y voitage	uropped ra	apiuly.							

Date7-Dec-2015RegionNSWGASOAR Report NLevel 1OperationalLevel 2Aircraft ControlLevel 2						ort Nbr		S-	0661	
Level 1	Operational		Level 2	Airc	raft Con	ntrol	Level	3	Hard landi	ng
A/C Model 1 Lak-19 A/C Model 2							el 2	N/A		
Injury	Nil	Dama	age Su	ubstantial	Phase	e Outla	anding		PIC Age	22
The pilot	was competing	in the Jur	nior World	d Gliding Cl	nampior	nships and	d was or	n final	l glide follov	ving a 4.5
hour AAT	hour AAT flight of over 500 kms. When about 30kms out and at a height of about 3,200ft AGL the pilot took									
a weak thermal but failed to climb. The pilot pushed on into a 14 knot headwind on a marginal final glide.										
Despite getting below circuit height the pilot continued to fly towards the finish circle with the aim to land in										
a paddoo	a paddock straight ahead. At about 100ft AGL as he approached the boundary of the paddock the pilot									
noticed p	ower lines and o	decided to	o land in a	a cotton fie	eld he ha	ad just ov	erflown	. The	pilot comple	eted a 180
degree tu	urn downwind a	nd landed	l heavily.	The aircraf	't was su	ubstantial	y dama	ged. 1	The pilot no <sup>.</sup>	ted that
"damage	e could have bee	n avoidea	' by makir	ng an earlie	er decisio	on to outi	and wit	hout	crossing the	finish ring".
A commo	on reason for ou	tlanding a	occidents	is the pilot	not acc	epting so	on enou	ıgh th	at an outlar	nding is
likely, an	d not prioritising	g the avail	able heig	ht to allow	them to	o fly to a	good sat	fe are	a. Pressing	on with the
flight in t	he hope that tha	at all will	be well is	fraught wi	th dange	er. Unlike	landing	; at th	e home airf	ield where
	the runway layout, ground features and hazards are usually well known, when landing in a strange paddock									
the pilot	is faced with the	e unknow	n. Such a	situation d	emands	s the pilot	take ad	lditior	nal precauti	ons to
ensure a	proper survey is	undertal	ken of the	landing ar	ea so as	s to identi	fy all ha	zards	and ensure	a safe
landing c	an be accomplis	hed. In po	ower flyin	g this is ca	lled a 'p	recautior	ary seai	rch' a	nd is comm	enced from



#### Accident and Incident Summaries

no lower than 500ft AGL, although in gliding one must obviously start a lot higher. Guidance on conducting precautionary searches for outlanding can be found on page 78 of the GFA Basic Gliding Knowledge book. When flying cross-country it is important that pilots plan and think ahead so that they are always in a position to make a safe landing. At low levels a pilot's priority will change from searching for lift to finding a suitable area in which to land. This requires good flight management and discipline because flying at low level is unsafe:

- there are more obstacles to avoid, many of which are hard to see until it is too late (e.g. power lines and birds);
- pilots have a higher workload because there are more hazards to negotiate in the environment;
- there may be turbulence and wind shear that pilots do not encounter at higher levels; and
- there is very little time to recover control of the aircraft if something goes wrong (e.g. consider a low level spin).For competition pilots the race to the finish is a high workload and dynamic situation. In such circumstances, being near the ground at a height where it is not possible to assess and check an available landing paddock is a high risk situation that must be avoided. Human factors including decision biases, goal fixation and cognitive tunnelling in competition may lead to pilots eroding safety margins more than in normal non-competition flying. Being aware of the dangers of continuing into marginal circumstances, setting boundaries, having a sound knowledge of rules and procedures, disciplined adherence to minima and performance requirements, prioritisation of options, and planning to deal with potential situations will act as defences against unsafe conditions.

Date	7-Dec-2015	Region	1	NSWGA		SOA	AR Repo	ort Nbr		S-	0658
Level 1	Airspace		Level 2	Aircra	aft Sep	arati	on	Level	3	Near collis	ion
A/C Mod	el 1		Piper	PA-25		A/C	Model	2	N/A		
InjuryNilDamageNilPhaseIn-FlightPIC Age62Late in the day and during a competition, the tow pilot was requested to conduct the retrieve of an											
outlande the CTAF passed o The tow	day and during d glider. After w and departed at ff to his left side pilot was aware sked further wes	aiting for low leve well clear that othe	several I to the r but a t r gliders	ʻfinishingʻg west before hird flew he may have b	liders turni ad-on been f	to lar ng so and inishi	nd, the uth. Tw passed ng fron	tow pilo vo sailp 200ft c n the sc	ot bro lanes over tl outh a	badcast his i enroute to he top of th	ntentions on the airfield e tow plane.

Date	7-Dec-2015	Region		NSWGA		SOA	R Repo	ort Nbr		S-	0659
Level 1	Operational		Level 2	Airc	raft Co	ontro	_	Level	3	Wheels up	landing
A/C Mod	el 1		Discus	2A		A/C	Model	2	N/A		
Injury         Nil         Damage         Minor         Phase         Landing         PIC Age         24											
The pilot was competing in the Junior World Gliding Championships and had just completed a 540km task after being in the air for 7 hours. Just after crossing the finish line at a height of 1,000ft some 3kms from the											
airfield, t	he pilot configure	ed the air	craft for	landing by	lower	ing tl	he und	ercarria	age ar	nd dumping	water
	ballast. Nearing the runway the pilot made an orbit to provide separation with a glider on short final and										
	then made his approach to land. Upon touchdown the undercarriage collapsed and the aircraft suffered minor damage. The pilot noted that he did not properly lock the undercarriage in the down position.										

Date	9-Dec-2015	Region		VSA		SOA	R Repo	ort Nbr		S-	0635
Level 1	Operational		Level 2	vel 2 Aircraft			Control Leve			Wheels up	landing
A/C Mod	el 1		LS8-	LS8-t			A/C Model 2		N/A		
Injury	Nil	Dama	ge	Minor	Pha	se	Landi	ng		PIC Age	52



Accident and Incident Summaries

The pilot lowered the undercarriage for landing but did not move the lever fully into the locking detent. Upon touchdown the undercarriage collapsed resulting in minor damage.

Date	10-Dec-2015	Regior	۱	VSA		SOA	AR Repo	ort Nbr		S-	0636
Level 1	Operational		Level 2	Grour	nd Ope	eratio	ons	Level	З	Taxiing col	llision/near
										collision	
A/C Mod	el 1	DG-500 M A/C Model 2 N/A									
Injury	Nil										
While the	While the aircraft was being towed to the launch point, the tail dolly split apart on rough ground and the										
aircraft ru	udder hit the tov	v car. The	e tail doll	y main shaf	t nut l	nad c	ome lo	ose and	the l	ball bearing	s fell out.
The dolly	was subsequent	tly repair	ed but a	new main s	haft n	ut co	uld not	be sou	irced	so the dama	aged nut was
welded ir	n place. While to	owing the	e glider t	o the launch	n point	t the	weld h	olding t	he nu	ut broke and	the dolly
came apa	came apart, resulting in the glider running into the car and suffering substantial damage to the rudder. The										
pilot's CF	pilot's CFI noted that missing a couple of days flying to source a new castoring dolly wheel would have been										
less costl	less costly.										





Date	13-Dec-2015	Regior	1 I	NSWGA		SOA	R Repo	ort Nbr		S-	0637
Level 1	Airspace		Level 2	ift Sep	arati	on	Level	3	Near collis	ion	
A/C Mod	el 1		DG-10	)00S		A/C	Mode	2	ASH	- 25 M Jet	
Injury	Nil	Dama	age	Nil	Pha	ise	Thern	nalling		PIC Age	67
-	During a training flight and while thermalling at 8,000ft near the home aerodrome the DG-1000 instructor										
	noticed an ASH-25 approaching head-on at high speed. The instructor momentarily levelled out and widened the turn to avoid conflict and the other glider passed close by to the left. The pilot of ASH-25 had seen the										
			-			-		-			
thermalli	ng glider and flev	w to join	it. He en	tered the th	nerma	l at n	nuch th	e same	heigl	nt as the DG	6-1000 but
on the op	posite side of th	e circle.	As the th	ermal was v	weak 1	the pi	ilot of t	he ASH	l-25 st	traightened	-up and flew
on only t	on only to encounter a strong core nearby in which he commenced a turn. The Instructor in the DG-1000										
discontin	ued thermalling	to avoid	overlapp	ing his circl	e with	the <i>i</i>	ASH-25	. A circ	ling g	lider attract	s other



#### Accident and Incident Summaries

gliders like a light attracts moths, so it is important to keep a good lookout at all times. Pilots should always join a thermal so as not to interfere with other gliders, and when at similar heights the joining glider should fly towards the outside of the circle made by the other glider. Remember, gliders already in a thermal should not have to manoeuvre to avoid you as you enter the thermal.

Date	14-Dec-2015	Regior	1		NSWGA		SOA	AR Repo	ort Nbr		S-0648	
Level 1	Operational			2	Mis	cellar	eous		Level	3	Rope/Rings Airframe Strike	
A/C Mod	A/C Model 1 Gro				Grob G 103 Twin II			A/C Model 2				
Injury	· · · · · · · · · · · · · · · · · · ·			nage Minor				Phase Launch			PIC Age	54
Following a weak link break on aerotow, a damaged the top surface. The glider land					• •	ped a	aroun	nd the t	ailplane	e and	the weak li	nk shackle

Date	17-Dec-2015	Regior	n l	GQ		SOA	AR Repo	ort Nbr		S-	0643	
Level 1	Operational		Level 2	Airc	raft Co	ontro	I	Level	3	Hard landi	ng	
A/C Mod	el 1	l	KR-03A P	uchatek		A/C	Model	2	N/A			
Injury	Nil	Dama	age	Minor	Phase Landing					PIC Age 67		
The student was conducting an outlanding under instruction but mishandled the landing and touched down heavily. The wingtip got caught in grass and the glider ground looped. The student had displayed exceptional												
heavily. T	he wingtip got c	aught in	grass and	l the glider	groun	d loo	ped. Tł	ne stud	ent h	ad displayed	d exceptional	
flying skil	Is and the instru	ctor was	quite rel	axed. As a o	consec	quenc	e, the i	nstruct	tor wa	as not prepa	ared when	
the stude	ent failed to adeo	quately ro	ound-out	. This is not	: an ur	icomi	mon oc	curren	ce an	d even expe	rienced	
instructo	instructors can be lulled into a false sense of security. Notwithstanding the experience level of the pilot											
under ch	under check, Instructors must always guard themselves against unexpected reactions during the critical											
stages of flight by adopting a defensive posture; i.e. having their hands and feet ready to take control.												

Date	18-Dec-2015	Region	1	WAGA		SOA	R Repo	ort Nbr		S-	0640
Level 1	Operational						5	Level	З	Runway ex	cursion
A/C Mod	C Model 1 Ventus-2Cx A/C Model 2 N/A										
Injury	Nil	Dama	age	Minor	Pha	ase	Launc	:h		PIC Age	65
	On tow out to the launch point the ballasted glider's 'win placed a 'wing stand' under the wing to keep it level whi								-	-	
placed a 'wing stand' under the wing to keep it level while he repaired the 'wing walker'. Upon his return to											
the glider the pilot found the wing resting on the ground and that some water ballast had drained from the											
-	wing. When the pilot placed the wing back on the 'wing stand' he did not notice any remarkable difference in wing balance, and after completing the repair the glider was towed to the launch point. The pilot										
-		•	-								
complete	ed his pre-flight o	hecks an	d boarde	d the aircra	aft for	launo	ch. Afte	er conne	ecting	g the tow ro	pe to the
glider, th	e wing runner ac	lvised the	e pilot tha	at the left v	ving a	ppear	red to b	oe heav	ier th	an the right	but the
pilot deci	ided to continue	with the	launch a	s the tow p	lane v	vas in	the pr	ocess o	f taki	ng up the sl	ack in the
rope. Jus	t after the 'all ou	t' comma	and had b	een given	and th	ne wir	ng runn	er let g	o, the	e left wing f	ell to the
ground a	nd the pilot imm	ediately	released.	The glider	veere	d off	the rur	nway to	the l	eft and suff	ered minor
damage.	Pilots need to be	e aware t	hat asym	metric win	g load	ing is	hazard	lous an	d usu	ally results i	in loss of
control. I	f you believe the	wings ar	e out of	balance bet	fore la	unch	, either	empty	and	refill them,	or fill them
up completely and release sufficient to meet weight & balance requirements.											

Date	19-Dec-2015	Region	1	GQ	SOAR Repo	ort Nbr		S-0642
Level 1	Operational		Level 2	Aircraft C	ontrol	Level	3	Loss of control
A/C Mod	el 1	F		25-235	A/C Mode	2	SZD	-50-3 "Puchacz"



Accident and Incident Summaries

Injury	Nil	Damage	Nil	Phase	Launch	PIC Age	66						
This was a tr	aining flight w	here the stude	ent was to cor	nduct a 'rele	ease failure' exercis	e and then a	ascend into						
high tow and	d await the 'w	ave off' signal	from the tow	pilot. Follov	wing the successful	'release fail	ure' exercise						
the student	established in	the high tow p	position at abo	out 1500ft /	AGL. Shortly afterwa	ards the stu	dent allowed						
the glider to	the glider to climb too high. The instructor had allowed the student time to get back into station but the												
student's rea	student's reactions were too slow and the tow plane ran out of elevator control and its nose pitched												
forward. Up	forward. Upon seeing this, the instructor immediately released to rope and the tow pilot recovered flying												
attitude. A g	lider pilots' ae	rotow training	g emphasises t	hat correct	t position behind th	e tug is esse	ential and						
that he must	release if he	is losing contro	ol. However, t	ug pilots m	ust be vigilant durir	ng the early	stages of the						
launch for ar	ny tendency o	f the tug to be	pitched nosed	d down. Be	low 600 feet, monit	or the tug's	attitude and						
if a gentle ba	ack pressure is	insufficient to	prevent any	nose down	pitch - release imm	ediately. Al	oove 600						
feet, the glid	feet, the glider pilot may be given the opportunity of correcting the situation. Be aware that tug upsets can												
happen rapio	dly with little v	warning. Glide	r pilots should	l release im	mediately if the gli	der is going	high and the						
tendency car	happen rapidly with little warning. Glider pilots should release immediately if the glider is going high and the tendency cannot be controlled, or they lose sight of the tug.												

Date	19-Dec-2015	Region		GQ		SOA	AR Repo	ort Nbr		S-	0645
Level 1	Operational	Level 2 Airc		raft Co	raft Control Lev			3	Hard landing		
A/C Mod	el 1		ASK	21Mi	LMi A/C Mo			2	N/A		
Injury	Nil	Damage		Minor	Minor Pha		ise Landi			PIC Age	56

The glider bounced on landing and pitched forward onto the nose wheel incurring minor damage to nosewheel steering fork and mount. The CFI noted that this type of aircraft has minimal clearance between the ground and nose/tail wheel, which enhances the tendency for the aircraft to oscillate if the recovery from a bounced landing is misjudged. Another contributing factor was rough ground. The pilot was briefed on the issues.



Date	26-Dec-2015	Regior	1	NSWGA	l l	SOAR Report Nbr		S-0646			
Level 1	Operational		Level	I 2 Air	craft C	ontro		Level	3	Hard landi	ng
A/C Mod	el 1	H 36 Dimona A/C Model 2 N/A		N/A							
Injury	Nil	Dama	age	Substantial	Pha	ase	Landi	ng		PIC Age	79
	The experienced pilot had prepared the aircraft in the hangar and had not noticed that the weather was deteriorating. After taxying from the hangar the pilot completed his pre take-off checks, during which time										
light rain began to fall. The pilot decided to conduct a circuit and then put the glider away. Shortly after											
becoming	becoming airborne the rain and wind increased in intensity. Unable to land ahead due to insufficient										



#### Accident and Incident Summaries

available runway, the pilot climbed to a safe height and conducted a 180 degree turn to land back on the runway. The pilot misjudged the round-out and landed heavily. The glider bounced and touched down again while travelling sideways and the undercarriage collapsed. Causal factors include poor aeronautical decision-making, adverse weather conditions, stress and a high workload.

Date	27-Dec-2015	Regior	۱	WAGA		SOA	R Repo	ort Nbr		S-0651	
Level 1	Consequential Events Level 2 Low Circ			cuit Level 3			3	Low Circuit			
A/C Mod	el 1	SZ	ZD-50-3 "I	Puchacz"		A/C	Model	2	N/A		
Injury	Nil	Dam	age	Nil	Pha	se	Landi	ng		PIC Age	65
The low e	experience pilot	broke off	the flight	at too low	ı a heig	ght to	o condu	ict a no	ormal	circuit. Des	pite
opportur	nities to land on	an alterna	ative runv	vay, the pil	lot con	tinue	ed the o	circuit o	onto t	he duty run	way and
complete	ed a low final tur	n. Fortun	ately the	pilot maint	tained	safe	speed	near th	ie gro	und and lan	ded safely.
The pilot	reflected on the	e flight an	d noted t	hat, despit	e his tr	rainin	ng, he b	ecame	fixat	ed on landir	ng at the
take-off p	point. Goal fixati	on often	manifests	in times o	f stres	s, wh	ich cou	ipled w	ith in	experience	results in a
failure to	analyse informa	ation app	ropriately	and loss o	of situa	tiona	l aware	eness. l	Reme	mber, situa	tional
awarene	ss must precede	decision	-making b	ecause the	e pilot l	has to	o perce	ive a s	ituatio	on in order t	to have an
outcome. Situational awareness also allows us to stay ahead of the aircraft. To prevent the loss of situational											
awarene	ss, implement pi	roven bes	t practice	s (circuit jo	oining,	radio	o proce	dures,	looko	out, etc.) and	d know the
Rules and	Rules and Regulations.										

Date	28-Dec-2015	Region		NSWGA		SOA	R Repo	ort Nbr		S-	0663
Level 1	Operational		Level 2	Airc	raft Co	ontro		Level	З	Wheels up	anding
A/C Mod	el 1		LS 3-	-a		A/C	Model	2	N/A		
Injury	Nil	Dama	ge	Minor	Pha	se	Outla	nding		PIC Age	56
The pilot	of the LS3 was u	ndertakin	g a 200k	m cross-co	untry	flight	with t	wo rem	note t	urnpoints ir	n company
with ano	ther pilot flying a	Janus. Th	e pilot h	ad only tw	o prio	r fligh	nts in th	ne prec	eding	90 days, or	ne of which
	eck flight with his	•		•		-	-			-	
	ne and then frequ							-	-		
	Oft. The average						-		-		
	slow and the pilo		-	-				-		-	
	ll airstrip just pas		-				-				-
-	rounding the see	-									-
	the flight to 7,10	-						-			
	tracked relatively	-					-		-		
	ngle that resulte		•							•	
	added to his stre										
	y or to diverge fr						•			•	-
	e and escape fror ut 30kms to run,	-					•				-
	ight and eventua	-					•	•	-		·
-	or the home airfi		-				-				-
-	2,000 ft above th				-						
	aged a slow (1.5k			•	•		•				
	continued to tra	-	•								
	ith 10kms to run							•			
-	t, he did not turr	-		•				-		•	
-	commenced we			-			-			-	• •
-	e suitable paddoo	-	-	-				-			-
	ring some furthe		-						-		
			·								



Accident and Incident Summaries

commenced circling. Over the next 3 minutes the pilot flew 6 full circles (3 in each direction) while losing 400ft, keeping one hand on the undercarriage lever as a reminder to lower it when he finally decided to give up the attempt to thermal away. During this time the pilot was flying effectively along a base leg for the paddock he finally landed in, but chose to land in canola stubble having failed to recognise it as being different from the wheat stubble in the other possible landing paddocks. At that point he again lowered the undercarriage but did not, in the stress of the moment, confirm that it was in fact selected down. Also during this process the pilot turned his back on the chosen paddocks several times and his last turn onto the base leg was made downwind – which may have influenced the final choice of landing paddock. At the last moment on final approach and during the landing flare, the pilot became uncertain of the undercarriage position and moved the handle. The glider touched down with the wheel retracted and slewed 90 degrees to the left during the ground run. The 45kms flown from the top of the highest climb to landing had taken over an hour, and the total flight was 3.5 hours. The pilot's CFI noted that the weather was cool for that time of year (27 degrees) but the air was dry and there was no cloud to mark the thermals or provide shade. The pilot carried plenty of drinking water and used it, and the in-flight relief system, regularly so dehydration was not a considered a factor. However, the pilot had not flown much the previous 3 months and had not flown that aircraft since May due to extended maintenance. In addition, the pilot had travelled overseas and concentrated on reactivating his PPL so had not flown gliders for some time in the previous 12 months. The pilot was also unfamiliar with interpreting logger traces as a coaching tool, and tended to fly slower than ideal between thermals. The stress of flying cross-country on a difficult day, unfamiliarity with the aircraft and, in the end, not dealing well with streeting in the blue conditions to choose a suitable track for his final glide meant that he fell short of the home airfield by less than 10 kms. At that stage he did not commit to landing at an appropriate stage, and further stressed himself by attempting to prolong the flight and failing to recognise the danger of the situation he found himself in, trying to use weak lift at a very low level. In subsequent discussion, and when shown the logger trace, the pilot now fully realises the need to be extra vigilant to guard against 'get-home-itis' (goal fixation) and optimism bias (that there is really lift there somewhere when there is not). All this led to the pilot not committing to land at the appropriate stage of the flight, not flying a full circuit of the landing paddock, and at the last minute moving of the undercarriage lever because he could not remember putting the wheel down 20 or 30 seconds previously.

Date	29-Dec-2015	Regior	1 I	NSWGA SOAR Report Nbr				S-0746			
Level 1	Consequential	Events	Level 2	Lo	ow Cir	cuit		Level	3 Low Circuit		t
A/C Mod	el 1		DG-300 E	lan Acro		A/C Model 2 N/A					
Injury	Nil	Dam	age	Minor	Pha	ise	Landi	ng		PIC Age	30
speed, lo establish landing" panel, fo	flew at another w-level manoeu ed circuit directi as a practice out llowing its review ving privileges su	vre close on for th landing k v of the f	to the ru e runway out that h light log a	nway upon . The pilot a is judgeme and witness	retur asserte nt was	n to t ed he s affe	he aero had do cted du	odrome ecided t ie to illi	e in a to pei ness.	direction co rform a "pre The Club's c	ntrary to the ecision operations

Date	29-Dec-2015	Region	۱	NSWGA		SOAR Report Nbr		S-0662			
Level 1	Operational		Level	2 Run	way E	vents	5	Level	3	Runway ex	cursion
A/C Mod	el 1	LAK-19				A/C Model 2 N/A					
Injury	Nil	Dama	age	Substantial	Pha	ase	Outla	nding		PIC Age	68
The pilot	was flying cross-	country	on a w	eak day and d	ecide	d to r	eturn t	o the h	ome	airfield usin	g the electric
sustainer	motor. The pilot	subsequ	ently f	flew through I	ift an	d dec	ided to	contin	ue or	i task. On re	turn from
the turn	the turn point the pilot found himself getting low again, so he restarted the electric motor and headed										
towards some hills in search of lift. Unfortunately the battery power was low and the motor warning lamp											
illuminat	illuminated. The pilot turned off the motor and was immediately faced with an outlanding. While the aircraft										



#### Accident and Incident Summaries

was now over hilly terrain with limited landing options, the pilot located a paddock of suitable dimensions with some minor slope. The glider landed at speed and it is suspected that the wheel and starboard wingtip touched the surface simultaneously, resulting in the wing catching in long Lucerne and causing the glider to ground loop. The aircraft was substantially damaged - suffering a bent undercarriage and separation of the starboard wing extension. Pilots of gliders capable of self-retrieving need to fully understand the limitations of their type of motor and must make decisions at sufficient height and with safe landing options available.

Date	30-Dec-2015	Region VSA			SOAR Report Nbr				S-	0650	
Level 1	Operational		Level 2	Airc	raft C	ontro	ontrol Level 3		3	Wheels up landing	
A/C Mod	el 1	1 DG-400 A/C Model				2	N/A				
Injury	Nil	Dam	age	Minor	Pha	Phase Launch		PIC Age	76		
At 200ft	AGL during self-l	aunch th	e pilot re	tracted the	unde	rcarri	age. At	400ft /	AGL tl	he engine st	opped. The
pilot completed a 180 degree turn and landed with the motor extended and undercarriage retracted.											
Investigation revealed the cylinder head temperature probe had worked loose and ejected from the engine,											
resulting in a loss of comparation and neuron While the CUT much a use look wined in place, it was not											

resulting in a loss of compression and power. While the CHT probe was lock-wired in place, it was not sufficient to prevent vibration eroding the thread to the extent that it failed. Pilots should check security of the probe during the Daily Inspection. Due to the high workload when landing motor gliders, pilots should also be in the habit of having the undercarriage down while the motor is deployed during take-off or landing.

Date	31-Dec-2015	Regior	า	SAGA	SAGA SOAR Report Nbr			S-	0689					
Level 1	Operational		Level 2	Runway Events		Level 3		Depart/App/Land						
										wrong run	way			
A/C Mod	el 1		Discu	ıs b		A/C	Model	2	N/A					
Injury	Nil	Dam	age	Nil	Pha	ise	Landi	ng		PIC Age	65			
Following	g an uneventful	aunch to	2,000ft /	GL, the lov	v houi	's pilo	ot searc	hed for	r lift b	out was unsu	uccessful.			
The pilot	eventually ente	red circui	t on the	eciprocal c	of the	opera	ational	runway	. A sa	ife landing e	ensued,			
albeit wit	albeit with an extended ground roll due to the light tailwind. The pilot noted that he became frustrated and													
distracted by his inability to locate lift for the second day in succession and inadvertently set himself up on														
circuit for	r the previous d	ay's opera	ational ru	nway.				circuit for the previous day's operational runway.						

Date	31-Dec-2015	Regior	۱	VSA		SOAR Report Nbr		S-0656			
Level 1	Operational		Level	2 Airc	raft C	ontro		Level	3	Wheels up	landing
A/C Mod	el 1		Nim	nbus 2		A/C	Model	2 N/A			
Injury	Nil	Dama	age	Minor	Pha	ase	Landi	ng		PIC Age	45
The pilot	did not complet	e a post-	launch	checklist and	left tl	ne un	dercar	riage do	own d	luring the cr	oss-country
flight. Up	on return to the	airfield a	and on t	the downwin	d leg t	he pi	lot retr	acted t	he ur	ndercarriage	e as part of
his pre-landing checks and proceeded to land with the undercarriage retracted. This accident highlights the											
importance of visually checking the undercarriage lever is in the 'down and locked' position against the											
placards.	placards.										



		-	
Level 1	Level 2	Level 3	DefinitionAn aircraft collides with another aircraft either airborne
Airspace	Aircraft Separation	Collision	or on the runway strip, or a vehicle or person on the runway strip.
Airspace	Aircraft Separation	Issues	Airspace - Aircraft separation occurrences not specifically covered elsewhere.
Airspace	Aircraft Separation	Near collision	An aircraft comes into such close proximity with another aircraft either airborne or on the runway strip, or a vehicle or person on the runway strip, where immediate evasive action was required or should have been taken. (a) En-route (b) Thermalling (c) Circuit
Airspace	Airspace Infringement	Airspace Infringement	Where there is an unauthorised entry of an aircraft into airspace for which a clearance is required.
Airspace	Other	Other Airspace Events	Airspace occurrences not specifically covered elsewhere.
Consequential Events	Ditching	Ditching	When an aircraft is forced to land on water.
Consequential Events	Diversion / Return	Diversion / Return	When an aircraft does not continue to its intended destination, but either returns to the departure aerodrome or lands at an alternative aerodrome.
Consequential Events	Emergency / Precautionary descent	Emergency / Precautionary descent	<b>Emergency descent</b> - Circumstances that require the flight crew to initiate an immediate high rate descent to ensure the continued safety of the aircraft and its occupants.
Consequential Events	Emergency evacuation	Emergency evacuation	When crew and/or passengers vacate an aircraft in situations other than normal and usually under the direction of the operational crew.
Consequential Events	Forced / Precautionary landing	Forced / Precautionary landing	<b>Forced landing</b> – Circumstances under which an aircraft can no longer sustain normal flight and must land regardless of the terrain. <b><u>Precautionary landing</u></b> - A landing made as a precaution when, in the judgement of flight crew, a hazard exists with continued flight.
Consequential Events	Low Circuit	Low Circuit	Any occasion where a pilot flies a Low Circuit that was potentially hazardous.
Consequential Events	Other	Other Consequential Events	Consequential events not specifically covered elsewhere.
Environment	Weather	Icing	Any icing issue that affects the performance of an aircraft.
Environment	Weather	Lightning strike	The aircraft is struck by lightning.
Environment	Weather	Other Weather Events	Weather occurrences not specifically covered elsewhere.
Environment	Weather	Turbulence/Windshear/Microburst	Aircraft performance and/or characteristics are affected by turbulence, windshear or a microburst.
Environment	Weather	Unforecast weather	Operations affected by weather conditions that were not forecast or not considered by the flight crew.
Environment	Wildlife	Animal strike	A collision between an aircraft and an animal.
Environment	Wildlife	Birdstrike Other Wildlife Events	A collision between an aircraft and a bird. Wildlife related occurrences not specifically covered
Environment Operational	Wildlife Aircraft Control	Airframe overspeed	<ul> <li>elsewhere.</li> <li>The airspeed limit has been exceeded for the current aircraft configuration as published in the aircraft manual.</li> </ul>
Operational	Aircraft Control	Control issues	The flight crew encounter minor aircraft control difficulties while airborne or on the ground.
Operational	Aircraft Control	Hard landing	Damage occurs during the landing.
Operational	Aircraft Control	Incorrect configuration	An aircraft system is incorrectly set for the current and/or intended phase of flight.
Operational	Aircraft Control	In-flight break-up	The aircraft sustained an airborne structural failure or damage to the airframe, to the extent that continued flight is no longer possible.
Operational	Aircraft Control	Loss of control	When control of the aircraft is lost or there are significant difficulties controlling the aircraft either airborne or on the ground.
Operational	Aircraft Control	Other Control Issues	Aircraft control occurrences not specifically covered elsewhere.
Operational	Aircraft Control	Pilot Induced Oscillations	Any PIO occurrence occassioning damage.
			A second second second to second s
Operational	Aircraft Control	Stall warnings	<ul><li>Any cockpit warning or alert that indicates the aircraft is approaching an aerodynamic stall.</li><li>An aircraft contacts the intended landing area with the</li></ul>

			The incorrect loading of an aircraft that has the potential to adversely affect any of the following: a) the aircraft's weight;
Operational	Aircraft Loading	Loading related	<ul> <li>b) the aircraft's balance;</li> <li>c) the aircraft's structural integrity;</li> <li>d) the aircraft's performance;</li> <li>e) the aircraft's flight characteristics.</li> </ul>
Operational	Aircraft Loading	Other Loading Issues	Aircraft loading occurrences not specifically covered elsewhere.
Operational	Airframe	Doors/Canopies	When a door or canopy, or its component parts, has failed or exhibited damage.
Operational	Airframe	Furnishings & fittings	An internal aircraft furnishing or fitting, including its component parts, has failed or exhibited damage.
Operational	Airframe	Fuselage/Wings/Empennage	Damage to the fuselage, wings, or empennage not caused through collision or ground contact.
Operational	Airframe	Landing gear/Indication	When the landing gear or its component parts (including indications), has failed or exhibited damage.
Operational	Airframe	Objects falling from aircraft	Objects inadvertently falling from or detaching from an aircraft.
Operational	Airframe	Other Airframe Issues	Technical - Airframe occurrences not specifically covered elsewhere.
Operational	Airframe	Windows	A window or a component part has failed or exhibited damage.
Operational	Communications	Other Communications Issues	Communications occurrences not specifically covered elsewhere.
Operational	Communications	Transponder related	The incorrect setting of a code and/or usage of transponder equipment.
Operational	Crew and Cabin Safety	Cabin injuries	A cabin crew member or passenger has suffered an illness or injury.
Operational	Crew and Cabin Safety	Flight crew incapacitation	A Flight Crew member is restricted to nil or limited duties as a result of illness or injury.
Operational	Crew and Cabin Safety	Inter-crew communications	Relates specifically to a loss, or breakdown, of communication between flight crew or associated ground staff.
Operational	Crew and Cabin Safety	Other Crew and Cabin Safety Issues	Cabin safety occurrences not specifically covered elsewhere.
Operational	Crew and Cabin Safety	Passenger related	Where the actions of a passenger adversely or potentially affects the safety of the aircraft.
Operational	Crew and Cabin Safety	Unrestrained objects	When objects are not appropriately restrained for the aircraft operation or phase of flight.
Operational	Fire Fumes and Smoke	Fire	Any fire that has been detected and confirmed in relation to an aircraft operation.
Operational	Fire Fumes and Smoke	Fumes	When abnormal fumes or smells are reported on board the aircraft.
Operational	Fire Fumes and Smoke	Smoke	When smoke is reported to be emanating from: a) inside the aircraft; or b) an external component of the aircraft.
			Errors or omissions during the planning and/or pre-flight phase that affect or may affect aircraft safety in relation
			to:
Operational	Flight Preparation/Navigation	Aircraft preparation	<ul><li>a) the aircraft's weight;</li><li>b) the aircraft's balance;</li></ul>
			<ul> <li>c) the aircraft's structural integrity;</li> <li>d) the aircraft's performance;</li> <li>e) the aircraft's flight characteristics.</li> </ul>
Operational	Flight Preparation/Navigation	Lost / Unsure of position	When flight crew are uncertain of the aircraft's position and/or request assistance from an external source.
Operational	Flight Preparation/Navigation	Other Flight Preparation/Navigation Issues	Navigation - Flight planning occurrences not specifically covered elsewhere.
Operational	Flight Preparation/Navigation	VFR into IMC	An aircraft operating under the Visual Flight Rules enters Instrument Meteorological Conditions.
Operational	Fuel Related	Contamination	When the presence of a foreign substance is found in fuel.
Operational	Fuel Related	Exhaustion	When the aircraft has become completely devoid of useable fuel.
Operational	Fuel Related	Leaking or Venting	Relates specifically to the unplanned loss of fuel from a fuel tank or fuel system.
Operational	Fuel Related	Low fuel	The aircraft's supply of fuel becoming so low (whether or not the result of a technical issue) that the safety of the aircraft is compromised.
Operational	Fuel Related	Other Fuel Related Issues	Fuel related occurrences not specifically covered elsewhere.

Operational	Fuel Related	Starvation	When the fuel supply to the engine(s) is interrupted, but there is still usable fuel on board the aircraft.
Operational	Ground Operations	Foreign Object Damage/Debris	Any loose objects on an aerodrome have caused, or have the potential to cause, damage to an aircraft.
Operational	Ground Operations	Ground handling	Any ground handling and aircraft servicing that caused, or has the potential to cause injury or damage to a stationary aircraft.
Operational	Ground Operations	Jet blast/Prop/Rotor wash	Any air disturbance from a ground-running aircraft propeller, rotor or jet engine that has caused, or has the potential to cause, injury or damage to property.
Operational	Ground Operations	Other Ground Ops Issues	Ground operation occurrences not specifically covered elsewhere.
Operational	Ground Operations	Taxiing collision/near collision	An aircraft collides, or has a near collision, with another aircraft, terrain, person or object on the ground or on water during taxi.
Operational	Miscellaneous	Missing aircraft	The aircraft is reported as missing. Miscellaneous occurrences not specifically covered
Operational	Miscellaneous	Other Miscellaneous	elsewhere in this manual.
Operational	Miscellaneous	Rope break/Weak link failure	Towplane separation incident necessitating a modified circuit.
Operational	Miscellaneous	Rope/Rings airframe strike	Airframe struck by launch cable or rings. Includes entanglemt with rope.
Operational	Miscellaneous	Warning devices	Situations in which an aural or visual aircraft warning device activates to alert the flight crew to a situation requiring immediate or prompt corrective action.
Operational	Miscellaneous	Winch Performance Issue	Any incident caused by poor winch performance, such as power failure, or mechanical reasosn.
Operational	Runway Events	Depart/App/Land wrong runway	<ul> <li>An aircraft that:</li> <li>a) takes off</li> <li>b) lands,</li> <li>c) attempts to land from final approach</li> <li>d) operates in the circuit</li> <li>at, to or from an area other than that authorised or</li> <li>intended for landing or departure</li> </ul>
Operational	Runway Events	Other Runway Events	Runway event occurrences not specifically covered elsewhere.
Operational	Runway Events	Runway excursion	An aircraft that veers off the side of the runway or overruns the runway threshold.
Operational	Runway Events	Runway incursion	The incorrect presence of an aircraft, vehicle or person on the protected area of a surface designated for the landing and take-off of aircraft.
Operational	Runway Events	Runway undershoot	Any aircraft attempting a landing and touches down prior to the threshold.
Operational	Terrain Collisions	Collision with terrain	Any collision between an airborne aircraft and the ground, water or an object, where the flight crew were aware of the terrain prior to the collision.
Operational	Terrain Collisions	Controlled flight into terrain (CFIT)	When a serviceable aircraft, under flight crew control, is inadvertently flown into terrain, obstacles or water without either sufficient or timely awareness by the flight crew to prevent the collision.
Operational	Terrain Collisions	Ground strike	When part of the aircraft drags on, or strikes, the ground or water.
Operational	Terrain Collisions	Wirestrike	When an aircraft strikes a wire, such as a powerline, telephone wire, or guy wire, during normal operations.
Technical	Powerplant/Propulsion	Abnormal Engine Indications	A visual or cockpit warning that indicates an engine is malfunctioning or operating outside normal parameters.
Technical	Powerplant/Propulsion	Engine failure or malfunction	An engine malfunction that results in a total engine failure, a loss of engine power or is rough running.
Technical	Powerplant/Propulsion	Other Powerplant/Propulsion Issues	Powerplant / Propulsion occurrences not specifically covered elsewhere.
Technical	Powerplant/Propulsion	Propeller malfunction	The failure or malfunction of an aircraft propeller or its associated components.
Technical	Powerplant/Propulsion	Transmission & Gearboxes	The failure or malfunction of an aircraft transmission/gearbox and/or its associated components.

Technical	Systems	Avionics/Flight instruments	The partial or complete loss of normal functioning of the avionics system or its components.
Technical	Systems	Electrical	The partial or complete loss of normal functioning of the aircraft electrical system.
Technical	Systems	Flight controls	The partial or complete loss of normal functioning of a primary or secondary flight control system.
Technical	Systems	Fuel	The partial or complete loss of normal functioning of the fuel system.
Technical	Systems	Hydraulic	The partial or complete loss of the hydraulic system.
Technical	Systems	Other Systems Issues	Technical - Systems occurrences not specifically covered elsewhere.