



Letter of Agreement

249 Version 9

Between

- Airservices Australia / East Coast Services Delivery – ML/SY (Regional Services South East and East Coast Services SY-ML), and
- Canberra Gliding Club.

Subject **Snowy Mountain Wave Soaring Areas**

Validity Period This Letter of Agreement shall be effective from **XX Date 2008** and will remain in effect until mutually amended or cancelled.

Supersedes This Letter of Agreement replaces LOA 249 Version 8 dated 24 August 2007.

Signatories The following signatories have ratified this Agreement:

Authority	Signature	Date
Nicole Connelly Manager East Coast Services Delivery – ML/SY Airservices Australia		
Anne Brownhill Manager Regional Services South East Airservices Australia		
Alan Wilson President Canberra Gliding Club Canberra		

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Snowy Mountain Wave Soaring Areas

Background

Throughout the year meteorological conditions suitable for high-altitude soaring in mountain waves exist in the Cooma region of N.S.W. and are used by glider pilots operating from the Canberra Gliding Club's airfield at Bunyan, (12 NM NE of Cooma–Snowy Mountains Airport).

The NSW Gliding Association also holds its Annual Wave Camp at Bunyan during August/September each year.

Pilots operating from Bunyan may attempt to exceed the Australian height record which is currently in excess of FL330.

CASA Instrument 289/05 provides a general approval for gliders to operate in Class A Airspace. A condition of that approval is for a LOA be established between Airservices Australia and the Canberra Gliding Club.

This LOA sets out options for glider operations on an individual, random basis or for programmed Wave Soaring Camps.

Pilot Briefing

The Canberra Gliding Club is responsible for ensuring that pilots in command of gliders operating into Class A Airspace from Bunyan under the authority of the Canberra Gliding Club are briefed on this LOA and the conditions specified in *CASA Instrument 289/05*.

Operations within Snowy Mountains Wave Soaring Areas

ATC is required to provide a separation service to all flights operating in Class A Airspace. A variation of this level of service to permit glider operations without mutual separation requires the declaration of Temporary Danger Area.

The following options are available to glider operators:

Option 1

Individual Operations without the declaration of a Temporary Danger Area:

- For individual or random flights;
- Operators are separated from other airspace users.

Option 2

Programmed Multiple Operations with the declaration of a Temporary Danger Area:

- For multiple flights operating during a known period (e.g. Annual Wave Soaring Camp).
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Snowy Mountain Wave Soaring Areas, continued

Option 1 - Individual Operations

Only one glider at a time will be issued a clearance to operate within the Snowy Mountains Wave Soaring Areas.

Gliders will be given priority on a first come first served basis. IFR flights in Class A Airspace have priority over Gliders.

A full ATC service will be provided. Gliders will therefore be:

- Separated from all other airspace users;
- Required to contact ATC approaching FL245 and request airways clearance.

E.g. "Melbourne Centre, glider ANO, request clearance to operate in the Snowy Mountains Wave Soaring Area, up to flight level 270".

Subject to other traffic, ATC will issue a clearance up to and including the level advised;

- Required to remain on 120.75 MHz;
- Required to operate on a 30 minute reporting schedule (120.75 MHz);
- Required to report leaving FL245 on descent upon completion of Wave Soaring operations.

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Snowy Mountain Wave Soaring Areas, continued

Option 2 - Programmed Multiple Operations

During the Annual Wave Camp or when planning to operate more than one glider simultaneously in Class A Airspace, it is the Canberra Gliding Club's responsibility to submit an Airspace Change Proposal (ACP) to CASA Office of Airspace Regulation (OAR) to establish a Temporary Danger Area. OAR will promulgate a NOTAM defining the Temporary Danger Area.

The lateral boundary of the Temporary Danger Area encompasses both Snowy Mountains Wave Soaring Areas, and visual navigation tolerances. Buffers are also applied to contain VFR altimeter errors. See Annex C for the definition of the Temporary Danger Area.

Note: Glider must operate within the boundary of the Snowy Mountains Wave Soaring Areas Low or High and to level restrictions as advised in the ATC clearance.

Melbourne Air Traffic Control will process the request for a NOTAM to be promulgated by CASA OAR.

Operations within the Temporary Danger Area

Melbourne Centre (120.75 MHz) is the controlling authority of the Danger Area.

Gliders will not be subject to Air Traffic Services and are required to operate on the gliding frequency (122.7 MHz) within the Danger Area.

Gliders require individual clearances from ATC to operate within the Danger Area. Gliders must report approaching FL245 (the base of Class A Airspace) and request clearance advising the upper level of expected operations.

E.g. "Melbourne Centre, glider ANO, request clearance to operate in the Snowy Mountains Wave Soaring Area, up to flight level 270."

Subject to IFR traffic, ATC will issue a clearance up to and including the level requested. IFR flights have priority over gliders.

Gliders shall report leaving FL245 to ATC on 120.75 MHz advising that they are clear of Class A Airspace.

Gliders must be contactable via the Canberra Gliding Club – Mobile Operations Van contact number below, or on 122.7 MHz.

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Snowy Mountain Wave Soaring Areas, continued

Flight Notification

For wave soaring above FL245, flight details must be notified to Melbourne Centre via 120.75 MHz, 119.4 MHz or the contact telephone numbers below (as per AIP) at least one hour prior to a request for a clearance. Flight details will be obtained and planned into TAAATS.

Clearances

Subject to traffic, gliders will be issued a clearance as per the following:

1. For operations up to and including FL300 the lateral limits of the clearance shall be defined as Snowy Mountains Wave Soaring Area – LOW;
2. If operations above FL300 are requested, the lateral limits of the clearance shall be defined as Snowy Mountains Wave Soaring Area – HIGH;
3. A requirement to remain clear of R422 may also be issued.

Radio Fail Procedures

Gliders becoming aware that they have suffered a radio failure should, as soon as possible, leave FL245 on descent and land. They should continue to broadcast intentions and broadcast when leaving FL245.

Broadcasts should be prefixed with “Transmitting Blind”.

After landing they are to report arrival to Melbourne Centre on the Melbourne Centre – ATC (Console) telephone number.

Contacts

The following telephone numbers can be used as required:

Organisation	Telephone Number
Melbourne Centre – System Supervisor (First point of contact)	(03) 9235 7400
Melbourne Centre – ATC (Console)	(03) 9235 7346
Canberra Gliding Club – Mobile Operations Van (First point of contact)	0428 523 994
Canberra Gliding Club – Club House	(02) 6452 3994
Canberra Gliding Club – Secondary point of contact	0419 797 508

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Snowy Mountain Wave Soaring Areas, continued

ANNEX A

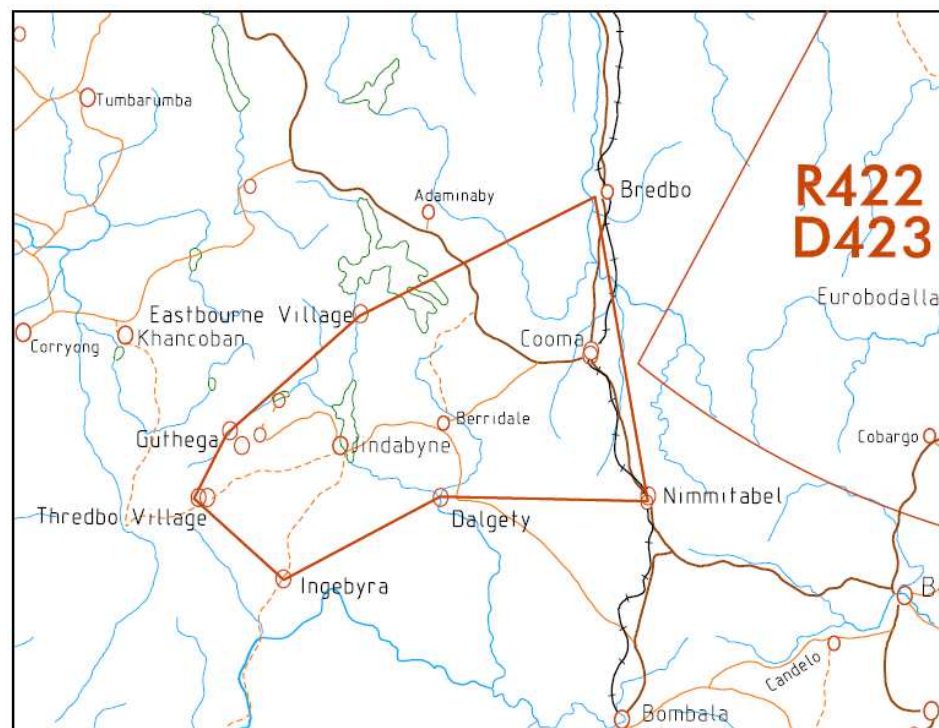
Definition – Snowy Mountains Wave Soaring Area – LOW

Lateral Limits:

Bredbo Village (35 57S 149 09E);
Eastbourne Village (36 10S 148 39E);
Guthega Village (36 23S 148 22E);
Thredbo Village (36 30S 148 18E);
Ingebyra Village (36 39S 148 30E);
Dalgety Village (36 30S 148 50E);
Nimmitabel Village (36 30S 149 17E);
Bredbo Village (35 57S 149 09E).

Vertical Limits:

ABV FL245 to FL300



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Snowy Mountain Wave Soaring Areas, continued

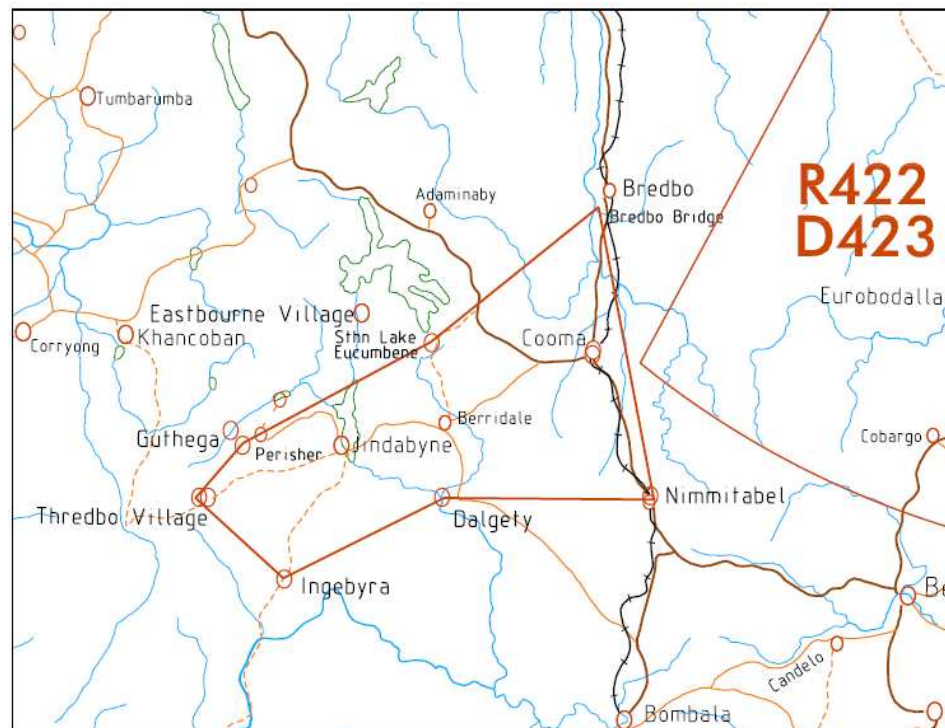
ANNEX B Definition – Snowy Mountains Wave Soaring Area – HIGH

Lateral Limits:

Bredbo Road River Bridge (35 58S 149 09E);
South Tip of Eucumbene (36 13S 148 48E);
Perisher Village (36 24S 148 24E);
Thredbo Village (36 30S 148 18E);
Ingebyra Village (36 39S 148 30E);
Dalgety Village (36 30S 148 50E);
Nimmitabel Village (36 30S 149 17E);
Bredbo Road River Bridge (35 58S 149 09E).

Vertical Limits:

ABV FL300



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Snowy Mountain Wave Soaring Areas, Continued

ANNEX C

Definition – Temporary Danger Area

The Temporary Danger Area shall be defined as follows:

- The boundary of Snowy Mountains Wave Soaring Areas (including tolerances) is as follows:

Lateral Limits: S 36°19'54" E 148°02'36", S 36°13'55" E 148°08'37" then along the minor arc of a circle of 16.0 NM radius centred on S 36°24'00" E 148°24'00" [PERISHER VILLAGE] to S 36°10'02" E 148°14'18", S 36°00'06" E 148°30'37", S 35°44'51" E 148°57'46" then along the minor arc of a circle of 16.0 NM radius centred on S 35°58'00" E 149°09'00" [BREDBO ROAD RIVER BRIDGE] to S 35°54'48" E 149°28'18", S 36°26'47" E 149°36'26" then along the minor arc of a circle of 16.0 NM radius centred on S 36°30'00" E 149°17'00" [NIMMITABEL VILLAGE] to 36°46'01" E 149°17'03", S 36°46'02" E 148°55'11", S 36°53'00" E 148°39'42" then along the minor arc of a circle of 16.0 NM radius centred on S 36°39'00" E 148°30'00" [INGEBYRA VILLAGE] to S 36°50'44" E 148°16'26", S 36°41'43" E 148°04'26" then along the minor arc of a circle of 16.0 NM radius centred on S 36°30'00" E 148°18'00" [THREDBO VILLAGE] to S 36°19'54" E 148°02'36";
- **Vertical Limits:** Above FL245 to 3000 FT above the highest level expected to be used by gliders;
- Period of Activation: As requested or HJ;
- **Text as per the following:**

ATC CLEARANCE IS REQUIRED FOR ALL FLIGHTS. IFR FLIGHTS HAVE PRIORITY FOR ACCESS TO THIS AIRSPACE AND WILL BE SEPARATED FM OTHER IFR AND FROM VFR. VFR FLIGHTS WILL NOT BE PROVIDED WITH ANY ATC SERVICES. VFR GLIDERS CLEARED TO OPERATE IN THE SNOWY MOUNTAINS WAVE SOARING tEMPO DANGER AREA MUST OPERATE IN ACCORDANCE WITH THE LETTER OF AGREEMENT WITH AIRSERVICES AUSTRALIA. STATUS OF AIRSPACE USE AVBL FROM MELBOURNE CENTRE.

ADMINISTERING AUTHORITY: CASA OAR.

CONTROLLING AUTHORITY: MELBOURNE CENTRE 120.75 MHZ.