

AIRWAYS

**M E T E O R O L O G Y
S Y M P O S I U M**

A I R W A Y S U P D A T E

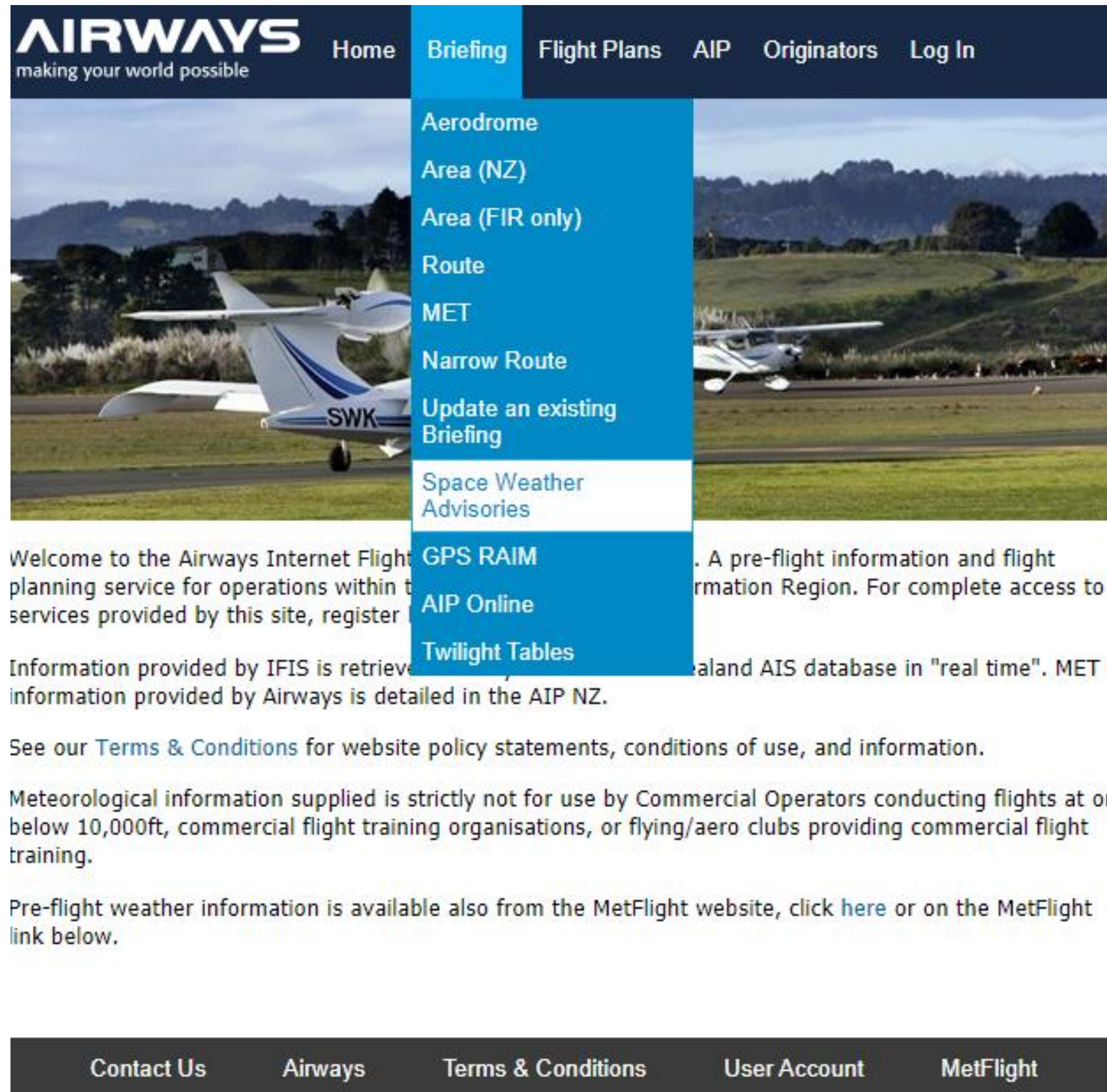
October 2020

making your world possible

IFIS

Space Weather Advisories.

- An option has been added to the IFIS Briefing menu, to enable IFIS users to view any Space Weather Advisories which might be in effect.:



The screenshot shows the Airways website interface. At the top, the Airways logo is on the left, and navigation links for Home, Briefing, Flight Plans, AIP, Originators, and Log In are on the right. The Briefing menu is open, displaying a list of options: Aerodrome, Area (NZ), Area (FIR only), Route, MET, Narrow Route, Update an existing Briefing, Space Weather Advisories (highlighted in white), GPS RAIM, AIP Online, and Twilight Tables. Below the menu, the main content area contains a welcome message, a disclaimer about the use of meteorological information, and a link to the MetFlight website. At the bottom, a dark footer bar contains links for Contact Us, Airways, Terms & Conditions, User Account, and MetFlight.

Space Weather Advisories.

- Space Weather (SWX) Advisories are only issued if certain criteria are met.
- Often there will be no current SWX Advisories.
- In this case IFIS will return:

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[Home](#) [Briefing](#) [Flight Plans](#) [AIP](#) [Originators](#) [Log Out](#)

[Home](#) > [Space Weather Advisories](#)

Space Weather Advisories

[Help](#)

There are no Space Weather Advisories in effect at present.

[Contact Us](#) [Airways](#) [Terms & Conditions](#) [User Account](#) [MetFlight](#)

Space Weather Advisories.

- Following a long period of testing (and no Solar Activity levels sufficient to trigger the issue of a real SWX Advisory), the first operational SWX Advisory was issued at 0555Z on 28-SEP-2020,
- Typical IFIS display when there is a SWX Advisory in effect:

Space Weather Advisories

[Help](#)

```
DTG:                20200929/0233Z
SWXC:               ACFJ
ADVISORY NR:       2020/29
NR RPLC:           2020/28
SWX EFFECT:       HF COM MOD
OBS SWX:           29/0228Z HNH MNH W120 - E020
FCST SWX +6 HR:    29/0900Z NO SWX EXP
FCST SWX +12 HR:   29/1500Z NO SWX EXP
FCST SWX +18 HR:   29/2100Z NO SWX EXP
FCST SWX +24 HR:   30/0300Z NO SWX EXP
RMK:               EVENT UPDATE. SPACE WEATHER EVENT (MAXIMUM USABLE FREQUENCY
DEPRESSION) IN PROGRESS IMPACTING HIGHER HF COM FREQUENCY BAND. LOWER
FREQUENCIES MAY BE LESS IMPACTED. ISOLATED AREAS OF SEV HF COM DEGRADATION
POSSIBLE.
NXT ADVISORY:      WILL BE ISSUED BY 20200929/0828Z
```

- An Extended AMHS service, which supports File Transfer Body Parts (FTBPs)* is required in order to support the exchange of MET data in IWXXM format.
* An FTBP is effectively an attachment to the AMHS message.
- The AFTN connection to Australia has been upgraded recently to an AMHS connection.
- As a result, both of NZ's main International connections for the exchange of aeronautical messages (to Australia and the USA) are now AMHS connections.
- This enables MetService to exchange MET data in IWXXM format with any State or Entity (e.g. the Australian Bureau Of Meteorology), provided there is a pathway between the two which supports an Extended AMHS service.

Aeropath/AIS to AIM Update

- Aeropath (part of Airways International) provides AIS/AIM on behalf of CAANZ. Static AIM is delivered by the Wellington AIM Team, and Dynamic AIM (NOTAM & preflight information) is delivered by the Christchurch ATSS Team.
- The New Southern Sky AIM work stream seeks to implement the ICAO AIS to AIM Roadmap, moving AIS from product-centric to data-centric operations (like the Met journey). NSS recently established the AIM Concept of Operations for 2023+
- Integration of AIM and MET data is a key step in the Roadmap. AIL & Metservice are exploring the joint development of a one-stop-shop pre-flight briefing site.
- It's proposed that this new briefing site use the webmap data platform developed by Aeropath and demonstrated to industry via the NSS Working Group. *(Apologies for not including a live demo today via Teams due to bandwidth concerns)*

Q U E S T I O N S /
C O M M E N T S ?