Australian Paragliding GAP - 2024

The version of GAP used for Australian Paragliding Competitions for the 2024 season is derived directly from the CIVL Section 7F – XC Scoring (https://www. https://www.fai.org/sites/default/files/civl/documents/sporting_code_s7_f_-_xc_scoring_2024.pdf). The following sections detail the local changes applied to the paragliding scoring in that Annex.

Lead Out Points

The lead out formula detailed in CIVL Section 7F – XC Scoring (2024) shall be used.

Time Points

The formula for calculating a Pilot's Time Points shall be:

$$TimePoints_p = max(0, AvailableTimePoints * (1 - (\frac{(Time_p - Time_{min}) * (\frac{Time_{min}}{1800})^{-0.5}}{3600})^{\frac{47}{80}}$$

Where:

- $Time_p$ - the Pilot's Speed Section Time (in seconds)
- $Time_{min}$ - fastest Pilot's Speed Section Time (in seconds)

This formula change has the effect of increasing the time after the first pilot arrives in which speed points will be awarded, while still maintaining the initial steep drop-off for leading pilots. This should enable pilots on slower wings to be better differentiated by their speed.

EXAMPLE 3 (FOR REFERENCE ONLY)

The fastest Pilot Time on a task is 90 minutes (5400 seconds), the table below shows the GAP2019 time points vs Aus PG time points for a series of Pilot Times:

PILOT TIME	GAP 2017 (ORIG) PTS	AUS PG GAP 2019 PTS
5400	500	500
5700	416	415
6000	367	373
6300	326	339
8100	139	194
9300	39	120
10500	0	55
11400	0	11

Distance Measurement and Validity

Distance Validity will be calculated using the median distance flown on the day (rather than the average distance).

$$DistanceValidity = min(1.0, \frac{Distance_{median}}{Distance_{nominal}})$$

The WGS84 ellipsoid and Haversine distance measurement will be used for scoring purposes.

Nominal Goal shall have no impact upon distance validity and is not required for the competition parameters.

For stopped tasks the glide ratio used for calculating the distance bonus shall be **5.0**.

Error Margins

Error margins on cylinders will be calculated at **0.05%** or 5m, whichever is larger.

Altitude

Altitude shall be determined using GPS altitude.