

GPS-Triangle

GPS Triangle was originated to establish an exciting and challenging contest to pilots using scale gliders of various types.

Meanwhile three different classes emerged out of the original GPS-Triangle format, so that nowadays this exciting soaring format is not only available for Scale gliders.

These three different classes are named like following:

- Scale
- Sport
- Light

Please find a short abstract about each class in the figure below. (*"What is GPS?"*)

GPS-Triangle classes in a nutshell

Class	Power unit	Scale or Size limits	Entry altitude in m	Entry speed in km/h	Working time in min	Circumference of the Triangle in km	Distance to waypoints in m
1:3 (Scale)	No motor, launched by aerotow	1:3 and smaller max. 115g/dm ² Max. 25kg AUW	500m	120 km/h	30min.	2,414 km	500m
SLS (Scale)	Self launch from runway	No scale limit max. 25kg AUW	500m	120 km/h	30min.	2,414 km	500m
Sport	Self launch from hand	max. 5 m span max. 75g/dm ² max. 7kg AUW	400m	120 km/h	30min.	1,690 km	350m
Light	Self launch from hand	2,7m to 4 m span max. 30g/dm ² max. 3kg AUW	200m	70 km/h	20min.	0,966 km	200m

For detailed information and exact competition rules please visit following link:

<https://gps-triangle.net/gps-triangle/regulations-documents/>

The main task when participating in a GPS Triangle competition is to fly around a virtual triangle (perimeter between 1km and 2.4 km depending on the class) as often as possible in a period of 20 to 30 minutes.

In order to obtain comparable results, the maximum starting altitude and the maximum starting speed when crossing the starting line are limited and thereby equal for all pilots.

In addition to the before mentioned task, GPS Triangle also provides a special and more exciting task. In the so called Speed Heat (which is flown in the Sportsclass), pilots have to fly around the virtual

triangle only one time as fast as possible.

All this became possible due to the utilization of Satellite-Navigation and reflects the "next step" in RC-Soaring. It actually builds a bridge between modelsoaring and full size glider sports.

The CONTEST-Eurotours

In particular the CONTEST-Eurotours' main objective is a long term increase of interest in aeromodelling for competitive sport.

All F3* and F5* CONTEST-Eurotour events are carried out according to the FAI rules.

All GPS-Triangle CONTEST-Eurotour events are carried out according to GPS-Triangle regulations of www.gps-triangle.net.

The winner of each CONTEST-Eurotour event will receive one of the famous carbonfibre CONTEST wing trophies sponsored by CONTEST.

The CONTEST format is used in many competition classes and scored like following:

The best three results of each competitor in each according competition season (calendar-year) will be counted for the overall result.

The winner is the competitor with the three highest scores.

The winner will get 100,00% for the win, all other competitors will get an aggregate percentage score relative to the winners 100,00%.

If there will be more competitors with identical cumulated scores at the end of the season, the ranking will be decided:

- 1) by the best discarded competition result (not counted competition result) of the equal scored competitors.
- 2) by the best singular competition result of the equal scored competitors (if "1" is not decisive).

If there will be less than three competitions in one competition season (calendar year), every result of each competitor will be counted for the overall result.

A GPS-Triangle CONTEST-Eurotour competition needs to host at least 8 inscribed pilots.

There will be winners for the GPS-Triangle CONTEST-Eurotours in following classes:

- Scale (combined results of all "1:3" and "SLS" competitions)
- Sport
- Light

The CONTEST-Eurotour calendar for each year will be set up by the GPS-Triangle committee of www.gps-triangle.net and published here (www.rcmodelsport.com) and on the GPS-Triangle.net-Website.

If you and your club are willing to organize a GPS-Triangle competition as part of the CONTEST-Eurotour, please feel free and contact us (info@gps-triangle.net)!

For further information please visit also:

<https://www.contest-eurotour.com/>

<http://www.gps-triangle.net>