

# ISARRA Flight Campaign Lannemezan

Centre de Recherches Atmosphériques

17 – 20 May 2016

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ISARRA website: <http://www.meteo.fr/cic/meetings/2016/isarra/>

There is a general interest in inter-comparison of the turbulence measurements and mapping of the turbulence field. Some groups are interested in flying other sensors to higher altitudes as we will have a ceiling of 7500 ft (1600 m.agl) with a 1 nautical mile radius (except a small section to the east over the city of Lannemezan). Attached is a map that gives an overview of the Lannemezan field site.

Here is some general information.

## **Dates: 17th to 20th May:**

The local organizing committee will set up the infrastructure the week prior to the campaign (tents, tables, chairs, electrical connections). We will also try to have internet at the operations area. The 16th (Monday) is a holiday in France, so we still start the field campaign in the morning of the 17th. Teams can arrive Monday afternoon/evening to start preparing their platforms. Sunrise / sunset will be at 6:30 / 21:15 local time. We will have permission to fly only during the daytime.

## **Operations area :**

See attached image for overview of site. Primary flight operations will be next to the 60m mast, south of the laboratory (CRA). If necessary, we can expand operations to the southeast (denoted in dashed shapes in map). Note that flight operations can be challenging for fixed wing aircraft because of the trees (35 – 40 m), masts, guy wires, power lines, and fences that transect the fields. Most of the time the winds are from the NE, S, or W.

## **Available data:**

Mast data (at least, temperature, RH, anemometer, solar fluxes at different levels up to 60 m), all-sky images. A complete list of available instrumentation is at: <http://p2oa.aero.obs-mip.fr/?lang=en>. The National School for Meteorology (ENM) will provide weather forecasts for each day.

## **Authorizations:**

7500 ft ceiling (1600 m.agl) w/ 1 nm radius. Each team will need to submit a security documents, descriptions of their vehicles, etc. We (CNRM) will collect the documents and send them to the DGAC together. Gregoire Cayez (ENM) will be the point of contact for the DGAC).

*IMPORTANT:* 1) all teams must have certificates of authorization to fly their aircraft from their respective countries; 2) and insurance.

## Lodging:

Limited lodging will be available at the field site (max ~ 20 people, shared rooms). There are also guest houses, B&Bs, and hotels available in the area.

## Food:

We will need to organize the food as there is nothing at the site. Breakfast and lunches will be catered and/or brought to the site as to maintain operations throughout the day. Dinners will need to be reserved in advanced as there are few restaurants in Lannemezan that can host 20 people at a time. In addition, there are small kitchens in the onsite housing.

## → Needed information from each team:

- Number of people:
- Dates (arrival / departure):
- Power requirements:
- Space requirements:
- Supplemental instrumentation (other than on UAVs):
- Specific requests:

