

### Technical Page

Proposal Type: Regular  
 General Category: Terrestrial Aeronomy  
 Sub-Category: Radar  
 Observation Category: Middle-lower atmosphere  
 Total Time Requested: 48 Hours

**Proposal Title:** THUNDERSTORM EXPERIMENT

**ABSTRACT:**

The objectives of the experiment are: 1. To study the link between electrical activity (lightning) and storm dynamics/microphysics as well as the stage of development of the storm. 2. To determine the dynamics (waves and turbulence) at the top of and above the cloud, and its evolution according to the storm stage. 3. To determine the structure of the lightning flashes in the cloud, their location relative to the updrafts/downdrafts and to the precipitation cores.

Name	Institution	E-mail	Phone	Stud
Monique M PETITDIDIER	CETP/CNRS/UVSQ	monique.PETITDIDIER@cetp.ipsl.fr	33 1 39 25 3912	N

**Service Observing Request**

**Remote Observing Request**

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

- No
- Maybe
- Yes

**Instrument Setup**

47 MHz CH      430 MHz CH receiver

**Atmospheric Observation Instruments:**

**Description of Observer Equipment:** 1. Electric field mill 2 . Disdrometer 3. Tipping bucket  
 raingage

**Special Equipment or setup:** Special setup: Software needs: we will require the same software as was used in previous Media needs: High speed magnetic tape devices for recording radar pulses.

**RFI Considerations**

## Frequency Ranges Planned

see proposal