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We will report on the recent achievements of the new Italian-French telescope (THEMIS) built in Tenerife and on the status of Pic-du-Midi observations.

1. THEMIS

Permanent staff in 1997-1998: C. Briand, J. L. Leroy, G. Ceppatelli and since September 1, 1998: C. Briand, G. Ceppatelli, F. Palletou, G. Molodij.

1.1. Adjustments

The guiding problems have been resolved in winter 1998.

The primary mirror has been realuminated in spring 1998.

An analyser of polarisation has been achieved and tested before the campaigns of observations.

1.2. Campaigns of observations in 1998:

The observing time was allocated to different research programs by the Scientific Committee according to the following schedule:

August 9-24:

Using the polarisation analyser, (responsible J. Rayrole)

- Overstable vertical oscillations coupled with magnetic field torsional oscillations in active regions.
- Magnetic vector and longitudinal velocity in AR.

August 25-September 2:

Adjustment of the MSDP.

September 3-18:

Observations with the MSDP (responsible P. Mein)

- Dynamics of active regions and filaments (International campaign with the Canaries telescopes and TRACE).
- Ellerman Bombs.

September 19-October 3:

With the Italian filter (IPM) (responsible G. Ceppatelli)

- Vortex detections in the photosphere and formation of magnetic flux tubes.

- Images and spectro-images of the photosphere and the chromosphere.
- Morphological and dynamics properties of granulation.
- A preliminary study of magnetic suppression of convection.
- Power spectra of oscillations in AR and quiet Sun.

1.3. Conclusion

The new primary mirror is at THEMIS and will be installed at the end of 1998. A new observing campaign is scheduled for spring 1999.

2. PIC DU MIDI

Observations have been much disturbed by the reconstruction works of the Observatory: a new cable-car and a new restaurant, which will be operated by private companies; new rooms; a new dome for the coronagraphs; a display for visitors -200000 per year are expected !

2.1. Coupole Tourelle

- acquisition of a fast CCD-camera, 1280x1024 pixels from LaVision (Gottingen) 7 frames/sec can be grabbed (12 frames/sec on a binning mode); it is controlled by a PC with 9 Gbytes of storage capacity and 128 Mbytes of RAM. Excellent images of the granulation in the G band 4305 Å (0.3 arc sec) have been obtained in October 1998. The camera will be mounted at the focus of the spectrograph in spring 1999 in the MSDP mode (H α and NaD1 lines).
- tests of a Cacciani Magneto-Optical Filter, for high spatial resolution magnetograms and Dopplergrams; the first tests appeared to be promising.
- Heliumeter: the observations have been interrupted in 1998, because of the reconstruction works of the Observatory; they will start again in co-ordination with SOHO/MDI, because both instruments have found the same solar oblateness in 1996.

2.2. H-alpha Chronograph

Observations were conducted regularly in co-ordination with SOHO till June; then they have been interrupted because of the reconstruction works of the Observatory at the Pic du Midi.