

Operations Plan of the Day

Saturday, 25 August 2007, 0845 UTC

General Remarks:

Synoptic Situation

A weak elongated trough stretching from the Baltic States to Spain, has its axis over the COPS domain. It is expected to move eastward out of the COPS area, which should induce slight subsidence on Saturday afternoon and Sunday. A weak frontal zone should approach on Monday before stalling over the COPS region. As a closed upper-level low over the Iberian Peninsula and an active trough moving southeastward over the North Sea interact on Tuesday, this may cause the frontal zone to activate and start moving northward a little, possibly causing rain over the COPS mainly late on Tuesday into Wednesday and possibly even into Thursday.

Today, on **Saturday** 25 August scattered convective clouds are expected to develop during the morning, especially over the mountains. There is a small chance that a few of them grow tall enough to produce some rain from the late morning onward. The balance between an increasing tendency for subsidence in the mid-troposphere and solar heating at the surface will determine whether precipitation will form.

Small convective clouds and some high cirrus clouds are expected on **Sunday**. Otherwise, the day should be friendly and relatively sunny.

On **Monday** an inactive front should approach from the north during the morning and become more or less stationary over the COPS region. The presence of the front will only cause a number of stratiform low clouds, most likely during the morning. It should remain dry in most places, although a few drops of rain, especially across eastern parts of the COPS region cannot be excluded.

Some high clouds and a few low-level cloud fields will likely be present on **Tuesday** morning. During the day the coverage of mid- and high clouds should increase as a result of enhanced warm air advection south of the front, that might return a little bit northward.

From Tuesday evening into **Wednesday** and **Thursday**, a chance exists that especially the southern parts of the COPS area will be affected by periods of rain. However, the numerical models are still rather inconsistent and it may just as well stay dry.

Operations summary:

# Day X (Saturday)	IOP 18b
# Day X+1 (Sunday)	down-day
# Day X+2 (Monday)	no IOP but COPS Party
# Day X+3 (Tuesday)	IOP possible
# Day X+4 (Wednesday)	IOP possible

Mission Plans:

Day X, Saturday, August 25: IOP 18b

Scan experiment ScaS3 shall be continued as long as the weather is favourable.

Specifications of vertical soundings:

- # Achern (R): 05, 08, 11, 14, 17 UTC (RS92)
- # Hornisgrinde (H): 05, 08, 11, 14, 17 UTC (RS92)
- # Deckenpfronn (S): 2 soundings: morning (one time of 05, 08* or 11 UTC) and afternoon (one time of 14, 17*, 20 UTC)

***Operations Center recommendation**

Lidar systems:

- # 05 - 18 UTC weather permitting, ensuring lidar operation during first radiosonde ascent, scan **scenario ScaS3**

Radar Systems:

- # Poldirad: standard daytime measurements

Day X+1, Sunday, August 26: down-day

Day X+2, Monday, August 27: no IOP and COPS Party

Day X+3, Tuesday, August 28: IOP possible

Details to be provided after Science Briefing on Monday morning, August 27.

Day X+4, Wednesday, August 29: IOP possible

Your COPS Operations Center Team

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