

Operations Plan of the Day

Thursday, 16 August 2007, 0730 UTC

General Remarks:

Special Observation Period (SOP 7) takes place on Friday, August 17:

Supporting ground based measurements during afternoon BAe flight are requested.

Synoptic Situation

An intense long-wave trough is still present over western Europe and moves eastwards during the next few days. Several shortwave troughs rounding this larger trough will determine the evolution of the weather until Friday.

On **Thursday**, much stratiform cloudiness with some rain is expected to affect the COPS area during the morning and early afternoon, although gradually larger breaks are expected during the day. Some shallow cumulus clouds will likely develop within the breaks.

On **Friday**, mostly non-thundering showers are expected to develop over the western and central COPS region. In the east, insolation may be hindered to such an extent that surface-based convection will not develop there. Convective clouds could tend to spread out horizontally at around 4 km height. The activity should diminish during the second half of the afternoon.

Saturday, subsidence behind a shortwave trough will likely suppress any shower activity. Some small convective clouds are expected.

Sunday, another shortwave trough should approach the area resulting in an increase of shower activity towards and into the evening.

Next week, after one or two days with some isolated -partially embedded- convective development, the forecast becomes quite unclear with some model runs opting for rapid stabilisation, whereas others continue or even intensify the convective episode.

Operations summary:

Day X (Thursday) IOP 16 (ending at 08 UTC)

Day X+1 (Friday) SOP 7: BAe support

Day X+2 (Saturday) Down Day

Day X+3 (Sunday) Down Day

Day X+4 (Monday) no IOP

Debriefing (IOPs 14, 15, 16) scheduled for Monday, at 1400 local at the Operation Center.

Mission Plans:

Day X, Thursday, August 16: IOP 16 ending at 08 UTC

Aircraft:

BAe 146: Flight is cancelled due to weather conditions

Specifications of vertical soundings:

EUCOS-MeteoSwiss: 05, 17 UTC (Payerne; launching time)

EUCOS-DWD: 05, 17 UTC (Meiningen, M, S; launching time)

Achern (R): no launchings

Hornisgrinde (H): no launchings

FZK: 05, 08 UTC

Deckenpfronn (S): 1 sounding: 05* UTC

*Operations Center recommendation

Lidar systems:

ongoing operations for automatic (unmanned) systems only,

Scan scenario ScaS2

Radar Systems:

Poldirad: continuing through the night, end time to be decided by Poldirad team

Day X+1, Friday, August 17: BAe support planned

Specifications of vertical soundings:

Achern (R): 3 launchings (times still under discussion)

Hornisgrinde (H): 3 launchings (times still under discussion)

Radar Systems:

Poldirad: operations during BAe 146 flight: 09-16 UTC

IMK-Radar: operations during BAe 146 flight: 09-16 UTC

Lidar systems:

operations during BAe 146 flight: 09-16 UTC, Scan scenario ScaS1

Day X+2, Saturday, August 18: Down Day

Day X+3, Sunday, August 19: Down Day

Day X+4, Monday, August 20: no IOP

Your COPS Operations Center Team

Ulli Corsmeier
Science Director

Matthias Grzeschik
Operations Director

Christian Barthlott
Operations Supervisor

Pieter Groenemeijer and Christian Ehmann
Forecaster