

Operations Plan of the Day

Monday, 13 August 2007, 0930 UTC

General Remarks:

Synoptic Situation

At the eastern periphery of an intense large-scale upper trough centered over the northern British Isles, several short waves will cross the COPS area on Monday and Tuesday. By Wednesday, the large-scale trough will have strongly intensified, resulting in a favourable setup for potentially organized convection on Wednesday evening.

On **Monday**, scattered showers and thunderstorms should form before early afternoon, whereafter large-scale subsidence should result in a gradual decrease of the depth of the convective clouds, so that convective precipitation becomes increasingly unlikely. Slight chance exists for renewed development late in the afternoon/evening especially over the southern Vosges/southern Black Forest.

On **Tuesday** there is little chance of deep convection because of weak mid/upper-level ridging.

The forecast for **Wednesday** still remains a challenge. The latest GFS now advertises nearly unimpeded insolation ahead of the front and the build-up of appreciable CAPE, so that an active convective evening would result. In this simulation, a distinct threat for organized severe thunderstorms exists. However, the solutions with respect to the warm-sector cloudiness/precipitation – which have much impact on the subsequent convective scenario - are somewhat unstable at the moment.

On **Thursday**, rain should prevail, maybe with embedded showers/isolated thunderstorms.

On **Friday**, COPS will be located in the post-frontal air mass, and a chance for scattered, and comparatively shallow rain showers exists in the afternoon hours.

Operations summary:

# Day X (Monday):	IOP 15b (high-pressure convection)
# Day X+1 (Tuesday):	no IOP
# Day X+2 (Wednesday)	IOP planned
# Day X+3 (Thursday)	no IOP
# Day X+4 (Friday)	IOP possible

Mission Plans:

Day X, Monday, August 13: IOP 15b

Specifications of vertical soundings:

- # EUCOS-MeteoSwiss: 05, 17 UTC (Payerne; launching time)
- # EUCOS-DWD: 05, 17 UTC (Meiningen, M, S; launching time)
- # Hornisgrinde (H): 05, 11, 17 UTC (RS 80G), 08, 14, 20 UTC (RS 80H)
- # Achern (R): 05, 11, 17 UTC (RS 80G), 08, 14, 20 UTC (RS 80H)
- # FZK: 08, 11, 14 UTC
- # 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**

- # IMK Dropupsondes: 4 teams with 6 sondes each between 10 and 18 UTC at:
 - 08 Kniebis
 - 32 Oberreichenbach
 - 41 Durrweiler (additional FLYP-launchings possible)
 - 64 Hopfau

Lidar systems:

- # 04 - 21 UTC, Scan scenario ScaS1, weather permitting

Radar Systems:

- # Poldirad: Standard daytime operations
- # Doppler-on-Wheels: Operation at DNW3 (Hohbühn) and DNE8 (Oberiflingen) starting at 07 UTC

Day X+1, Tuesday, August 14: no IOP

Day X+2, Wednesday, August 15: IOP planned

A forced convection scenario is to be expected later in the course of the day. Standard observation strategy is foreseen with beginning later in the morning and ending some time in the night.

Day X+3, Thursday, August 16: no IOP

Day X+4, Friday, August 17: IOP possible

Your COPS Operations Center Team

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