

# Operations Plan of the Day

**Wednesday, 8 August 2007, 0930 UTC**

## General Remarks:

A high-amplitude upper trough over western Europe is in the process of closing off into a cut-off low over France, which will subsequently move to northern Italy where it will remain anchored until early Friday morning. Thereafter, it is simulated to progress eastward towards the Black Sea until Sunday night. At low levels, a weak but large cyclonic circulation is maintained over central Europe by the upper low, which acts to advect the weakly unstable air over the eastern half of Europe westward again.

On **Wednesday 8 August**, the main 850 hPa front is aligned north/south, stretching right across the COPS area. With the eastward progression of the upper low, increasing ascent will occur over the COPS area late in the day, leading to renewed extensive stratiform precipitation in the late afternoon and evening hours, continuing through the night.

On **Thursday**, the rain will likely continue during most of the day, due mainly to warm advection associated with the westward advection of the warm/unstable air mass over eastern Europe.

With the arrival of the warm/moist air on **Friday**, GFS simulates weak CAPE in the northern portions of the COPS region. The details of the convective scenario remain somewhat uncertain. Present thinking is that weak solar heating will occur despite the presence of cloudiness, initiating scattered showers and thunderstorms in a minimally capped environment.

On **Saturday** and **Sunday**, the current GFS forecast indicates that scattered showers may still occur.

## Operations summary:

**# Day X (Wednesday): IOP 14b**

**# Day X+1 (Thursday): IOP 14c: IOP addressing heavy precipitation event - only reduced operations required in the COPS area**

**Despite the IOP, a debriefing discussing IOPs 12 and 13 will take place at 14 LT in the meeting room Venezia.**

**# Day X+2 (Friday): IOP possible**

**# Day X+3 (Saturday) IOP possible**

**# Day X+4 (Sunday) IOP possible**

## **Mission Plans:**

### **Day X, Wednesday, August 08: IOP 14b**

#### **Specifications of vertical soundings:**

- # IMK-FZK: 05, 08, 11, 14, 17, 20 UTC
- # IMK-Burnhaupt: 05, 08, 11, 14, 17, 20 UTC
- # EUCOS-MeteoSwiss: 05, 17 UTC (Payerne; launching time)
- # EUCOS-DWD: 05, 17 UTC (Meiningen, M, S; launching time)
- # Hornisgrinde (H): 05, 11, 17 (RS 80G), 08, 14, 20 UTC (RS 80H)
- # Achern (R): 05, 11, 17 (RS 80G), 08, 14, 20 UTC (RS 80H)
- # 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: no operations

**Lidar systems:** no operations

#### **Radar Systems:**

- # Poldirad: standard daytime measurements
- # Doppler-on-Wheels: no operations

### **Day X+1, Thursday, August 09: IOP 14c**

#### **Specifications of vertical soundings:**

- # EUCOS-MeteoSwiss: 05, 17 UTC (Payerne; launching time)
- # EUCOS-DWD: 05, 17 UTC (Meiningen, M, S; launching time)
- # Hornisgrinde (H): no operations
- # Achern (R): 11, 17 UTC (RS 80G)
- # Deckenpfronn (S): no operations
- # IMK Dropupsondes: several launches with regular dropupsondes and FLYPS planned between 12 and 20 LT at Supersite H

**Lidar systems:** no operations

**Radar Systems:**

- # Poldirad: standard daytime measurements
- # Doppler-on-Wheels: no operations

**Despite the IOP, a debriefing discussing IOPs 12 and 13 will take place at 14 LT in the meeting room Venezia.**

**Day X+2, Friday, August 10: IOP possible**

**Specifications of vertical soundings:**

- # EUCOS-MeteoSwiss: 05, 17 UTC (Payerne; launching time)
- # EUCOS-DWD: 05, 17 UTC (Meiningen, M, S; launching time)
- # Hornisgrinde (H): to be specified
- # Achern (R): to be specified
- # Deckenpfronn (S): to be specified
- # IMK Dropupsondes: to be specified

**Lidar systems:** operations possibly during the morning (to be confirmed)

**Radar Systems:** daytime operations (to be confirmed)

- # Doppler-on-Wheels: operations in the northern COPS area (exact locations to be determined)

**Day X+3, Saturday, August 11: IOP possible**

**Day X+4, Sunday, August 12: IOP possible**

**Your COPS Operations Center Team**

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