

COPS Weather Summary

29 August 2007

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Synoptic Overview

The COPS region is situated on the southern periphery of a broad longwave trough over Scandinavia and ahead of a shortwave trough stretching from the southern North Sea to northwestern Spain. Cyclogenesis is taking place over southern France. Ahead of that system, strong warm-air advection is expected.

Analysis and Forecast of Synoptic Controls in the COPS Region

Today, Wednesday, 29 August

Within the frontal zone scattered precipitation from elevated convection is expected over the southern and perhaps central parts of the COPS area during Wednesday morning and afternoon. Some lightning is presently occurring and will likely be possible later in the day as well. In addition to convective precipitation, some stratiform rain is expected as well. From Wednesday evening onward, the rain should retreat southward somewhat and only the extreme south of the COPS area should be affected, leaving the central and northern COPS region under overcast skies with mid- and high-level clouds.

Thursday, 30 August

On Thursday, the extreme south of the COPS domain will see some more mostly stratiform rain, while it should remain dry elsewhere. Widespread mid- and high-level clouds are expected over the COPS region at least until late afternoon. In the late evening and overnight a weak frontal system is expected to approach from the northwest. An increase in low-level cloudiness is expected and a little rain may fall primarily after midnight.

Friday, 31 August

In association with a second weak disturbance arriving from the northwest, widespread low clouds are expected and some light rain should fall from time to time.

Today, Wednesday 29 August

Time/location of first convective cloud development	Embedded convective clouds (Ac in the northern parts, Cb in the south of COPS area) already present.
Time/location of convective storm initiation	Mainly stratiform precipitation/convective rain of only embedded nature is to be expected preferably over the southern parts of COPS area, becoming less in the evening.
Mode/coverage/evolution	Elevated convection.
Convective cloud base	Around 3000 m (elevated convection).
Storm motion	At about 5-10 m/s from the southwest.
Maximum temperature	19-22 °C with some insolation towards the north, around 15 °C with longer rainy episodes in the south.
Precipitation	Up to 30 mm in the southern Black Forest, mainly dry in the northern region of COPS.
Severe weather threat	Low, except for possible local flooding problems in the southern Black Forest.

Tomorrow, Thursday 30 August

Time/location of first convective cloud development	Some shallow Cu mainly in the northern parts of COPS area below high- and mid-level cloudiness.
Time/location of convective storm initiation	
Mode/coverage/evolution	
Cloud base	Around 1800 m, but some low-level clouds in the morning mainly towards the south.
Storm motion	-
Maximum temperature	Up to 21 °C in the Rhine Valley.
Precipitation	Dry except for a few last rain drops in the southern COPS area in the morning.
Severe weather threat	-

Friday 31 August

Time/location of first convective cloud development	Mainly stratiform low-level cloudiness.
Time/location of convective storm initiation	
Mode/coverage/evolution	
Cloud base	Around 1200 m.
Storm motion	-
Maximum temperature	18-21 °C.
Precipitation	0-5 mm with stratiform rain.
Severe weather threat	-

Suggestions for IOP's and down days

Only embedded (today) and shallow (tomorrow) convection is expected, so IOP's are not recommended. Friday do not look very interesting either, as mainly stratiform cloudiness with some rain will prevail.

This is the last COPS Weather Summary. We hope the forecasts didn't fail too often and wish you a nice rest of the summer, a "Golden Autumn", a Merry Christmas and a Happy New Year ☺

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