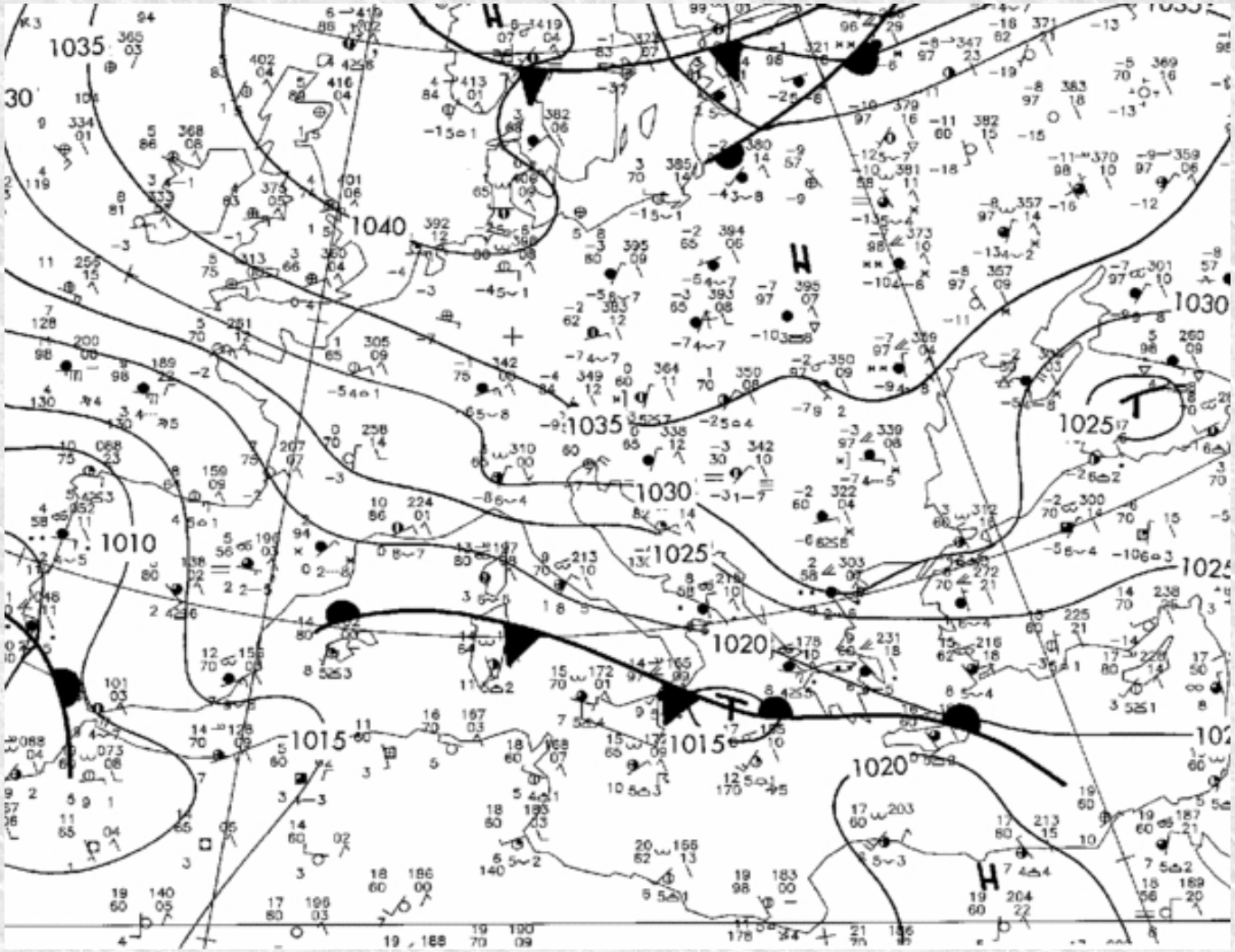
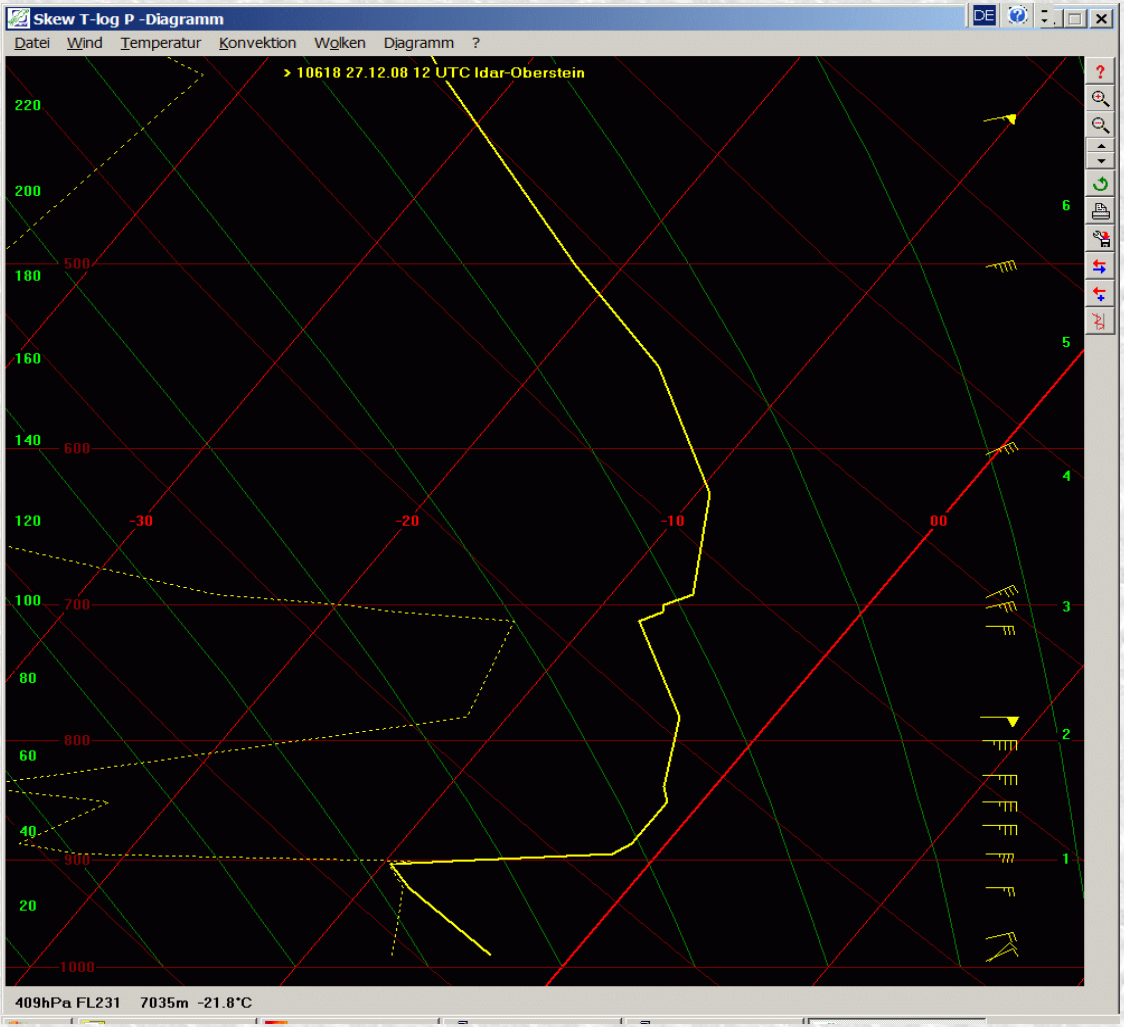
Are Cross-Country-Waveflights possible almost without mountains?

Ralf Thehos

German Weather Service(DWD)

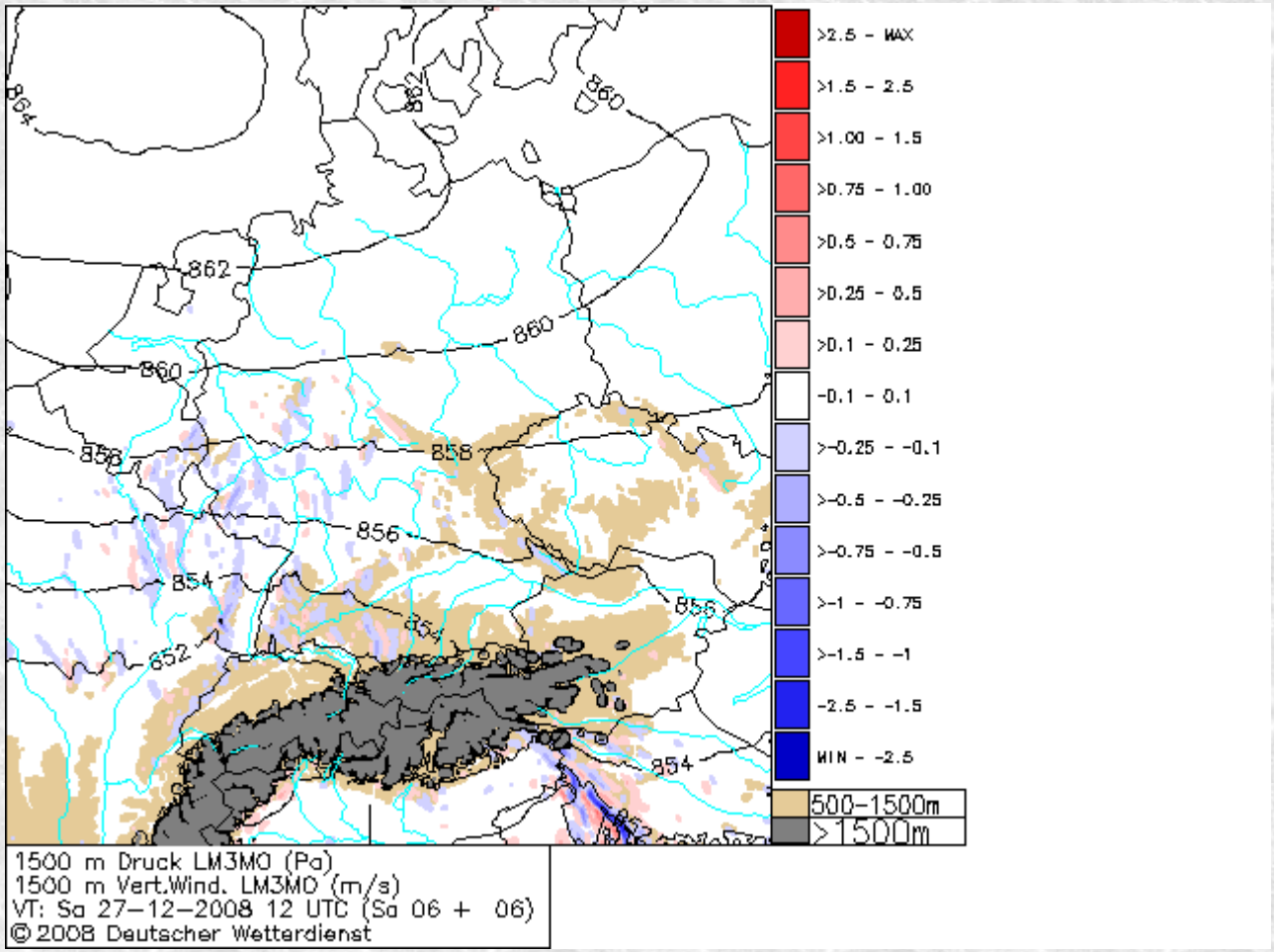
2008-12-27
12 UTC





Sounding Idar-Oberstein 2008-12-27 12 UTC

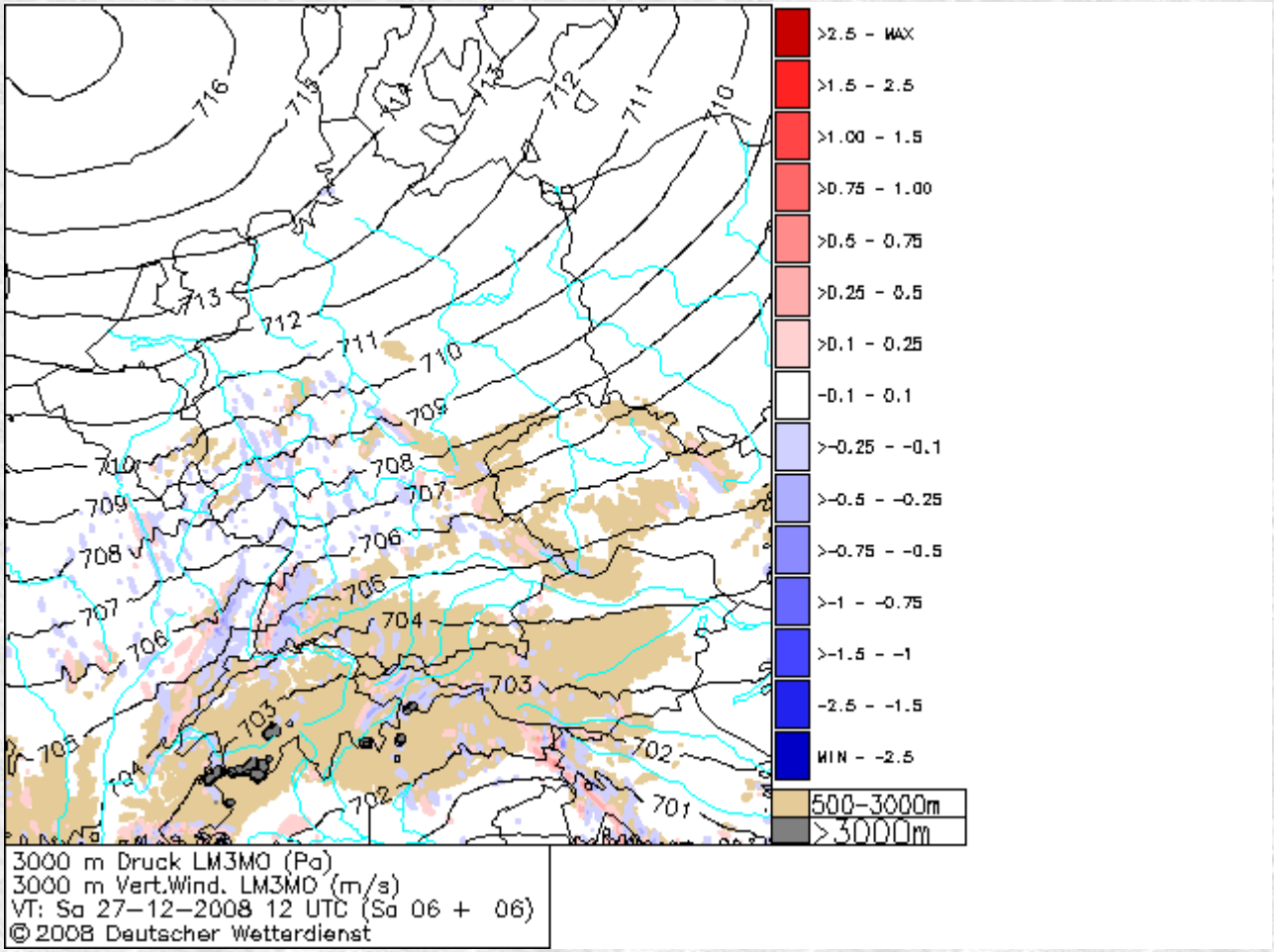
1500m



2008-12-27 12 UTC

COSMO-DE-Forecast 06 UTC +6h

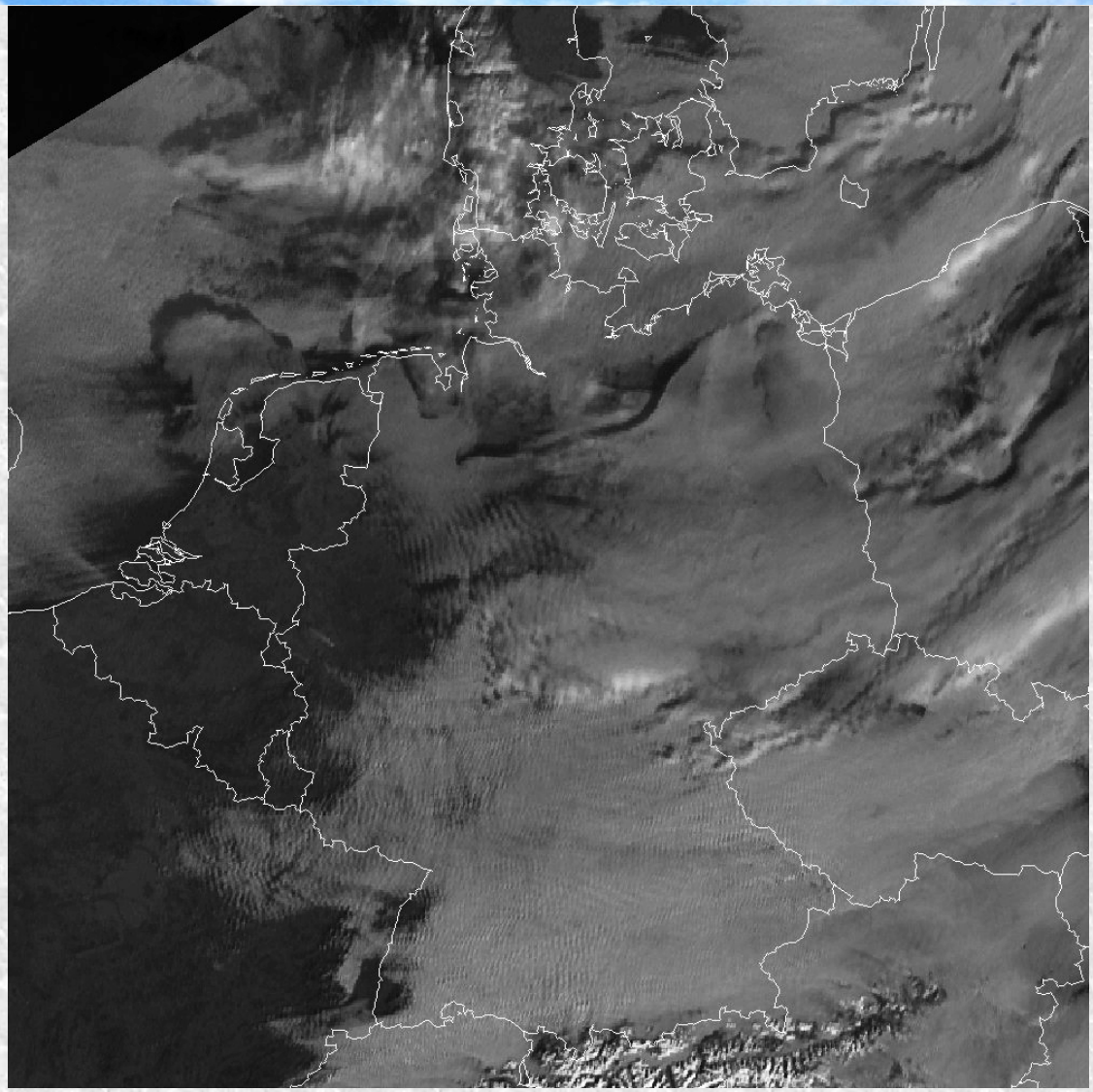
3000m



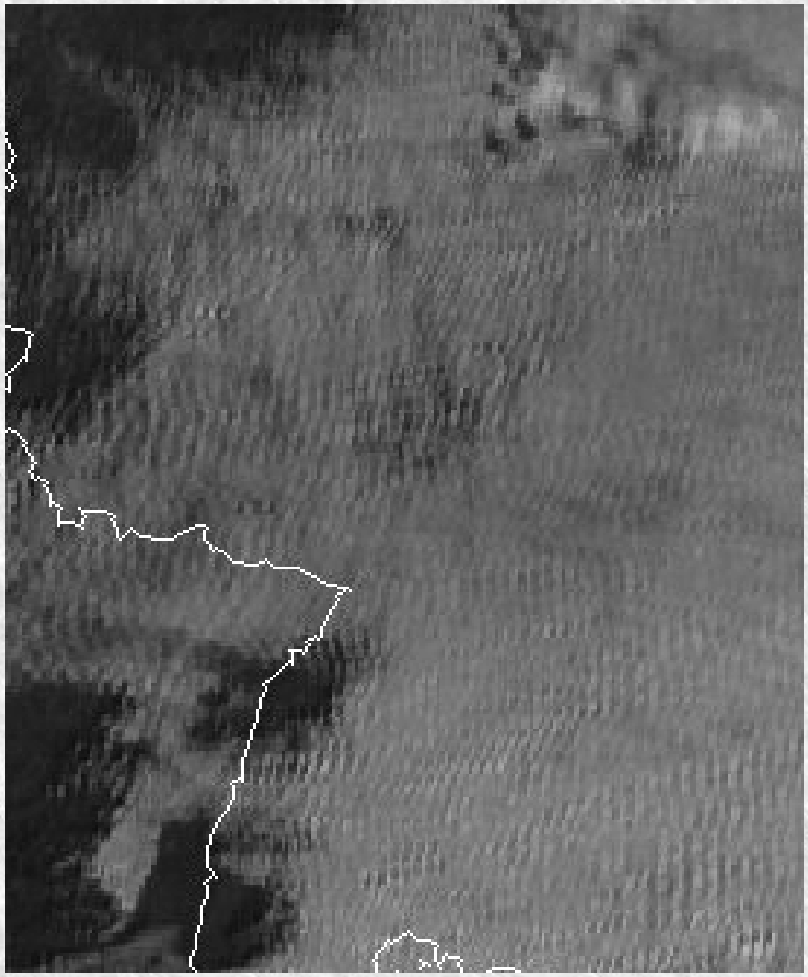
2008-12-27 12 UTC

COSMO-DE-Forecast 06 UTC +6h

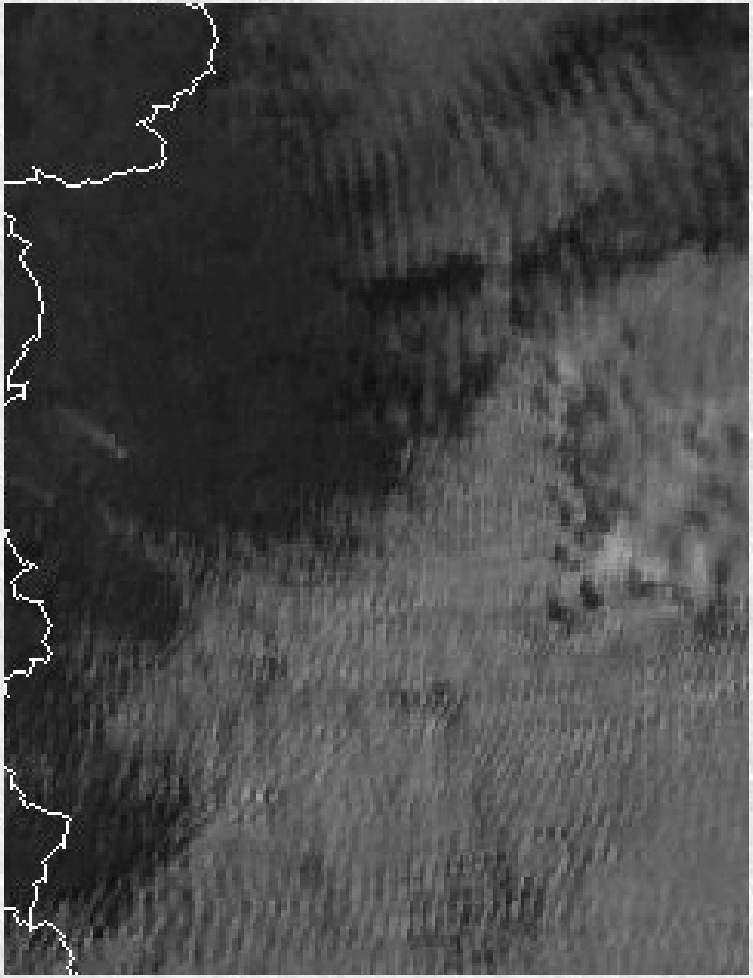
2008-12-27
09 UTC



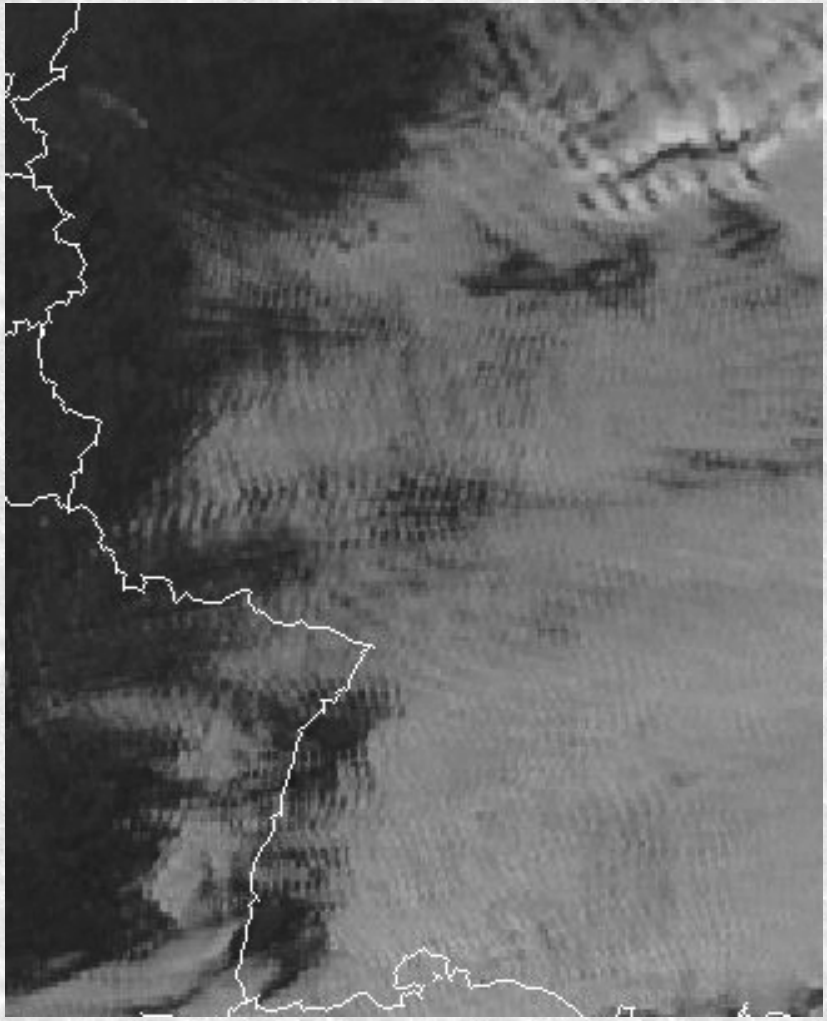
2008-12-27
09 UTC



2008-12-27
09 UTC



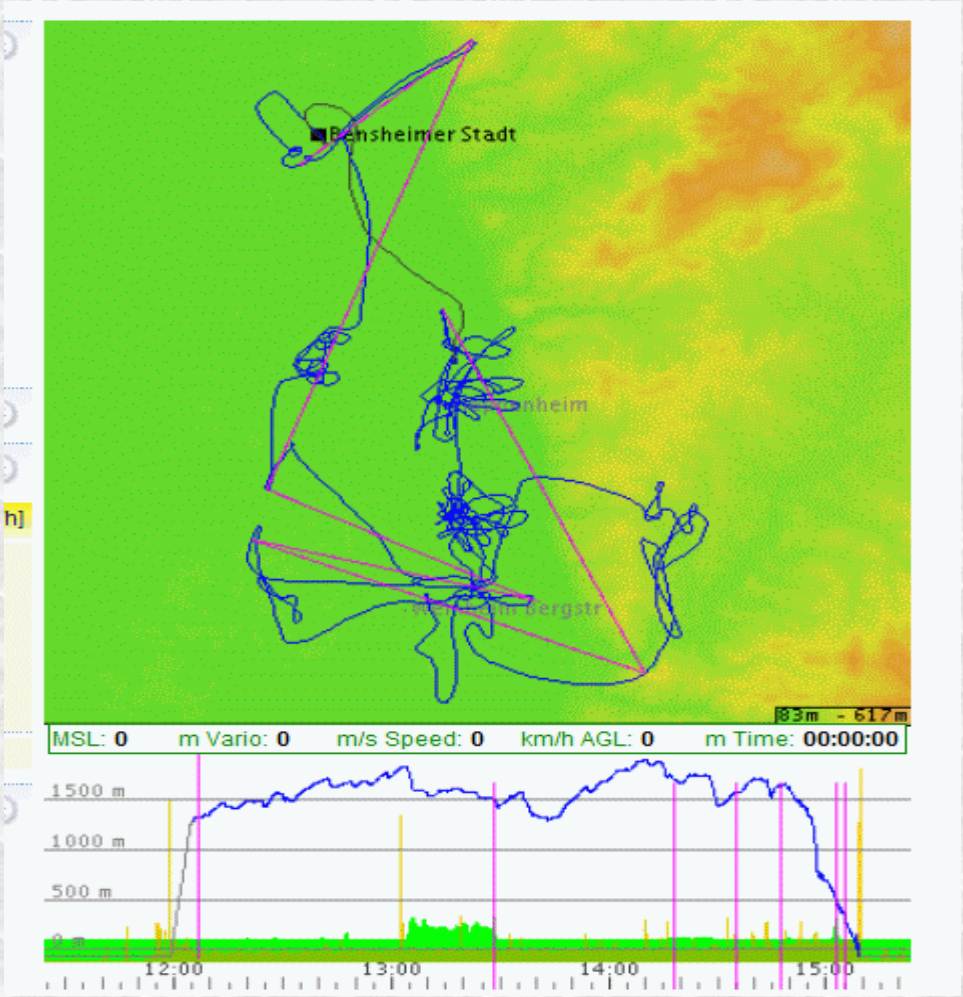
2008-12-27
12 UTC



OLC-Flight
Ralf Thehos

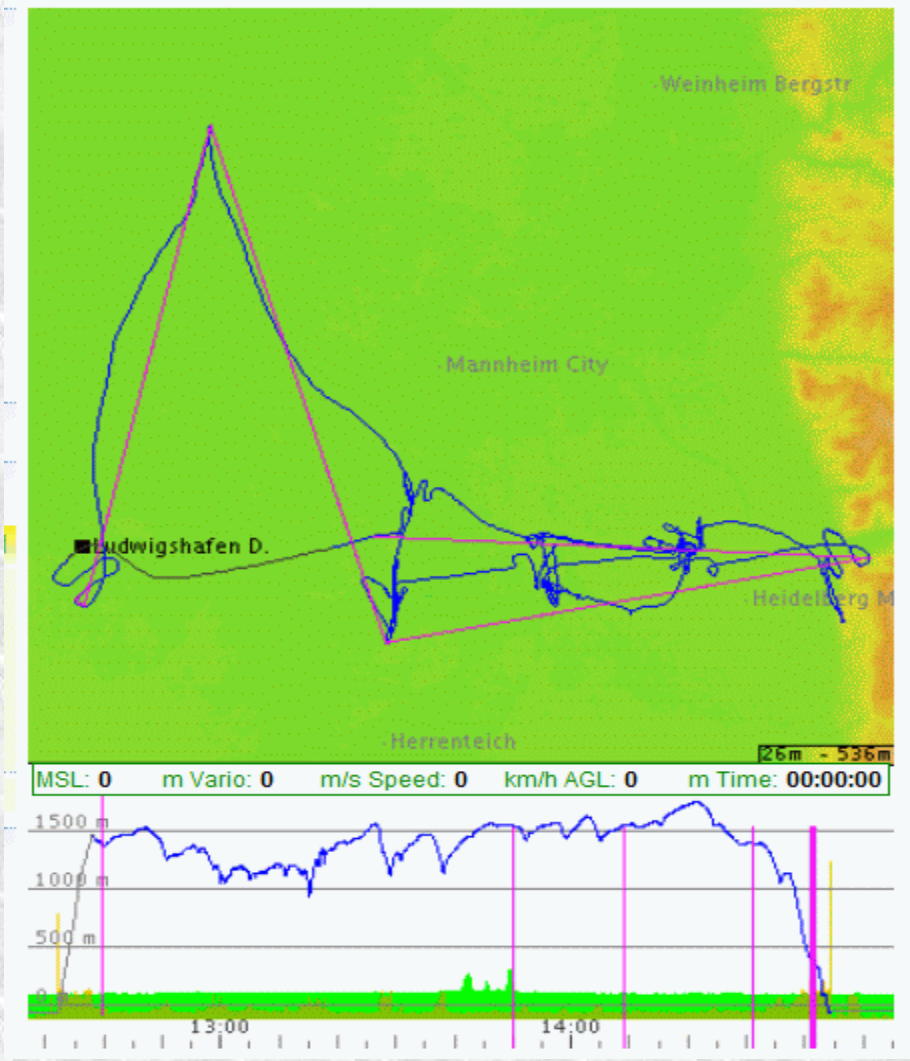
Climbing Rate
app. 0.5-0.7m/s,
max. 1m/s.

Wave-length
app.3-4km.



OLC-Flight
Benno Alexander

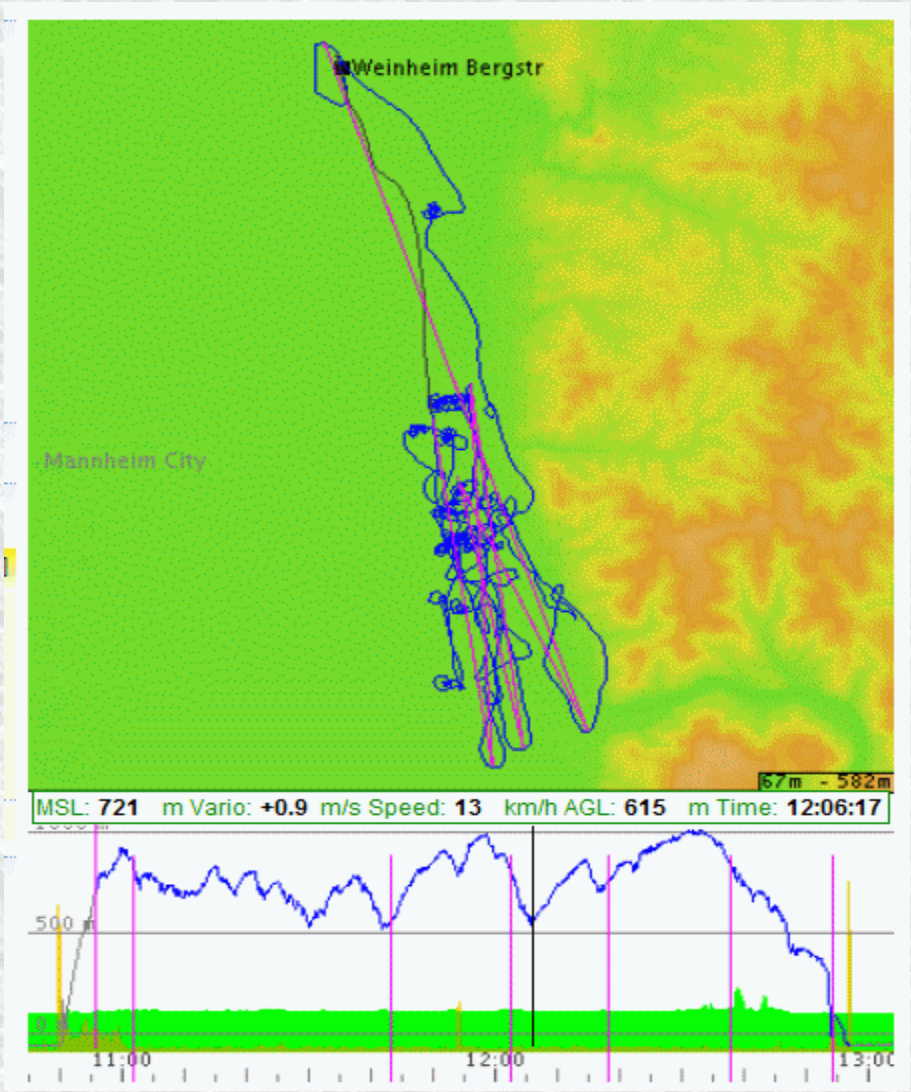
Best climb rates in front of the clouds.



OLC-Flight
Matthias Dietrich

Possible to fly below the clouds (rotors).

Not possible(?) to climb over.



Some impressions

Conclusions

There are some weather situations each winter with waves over hundreds of kilometers.

The waves are almost independend of terrain.

Cross-country flights may be possible in regions without higher mountains too.

COSMO-DE wave-forecasts give good qualitative signals for wave-flying.

Let‘s evaluate this winter