TopMeteo

Daily weather briefing

for aircraft pilots

1. Gain an overview

Analysis of satellite and radar imagery

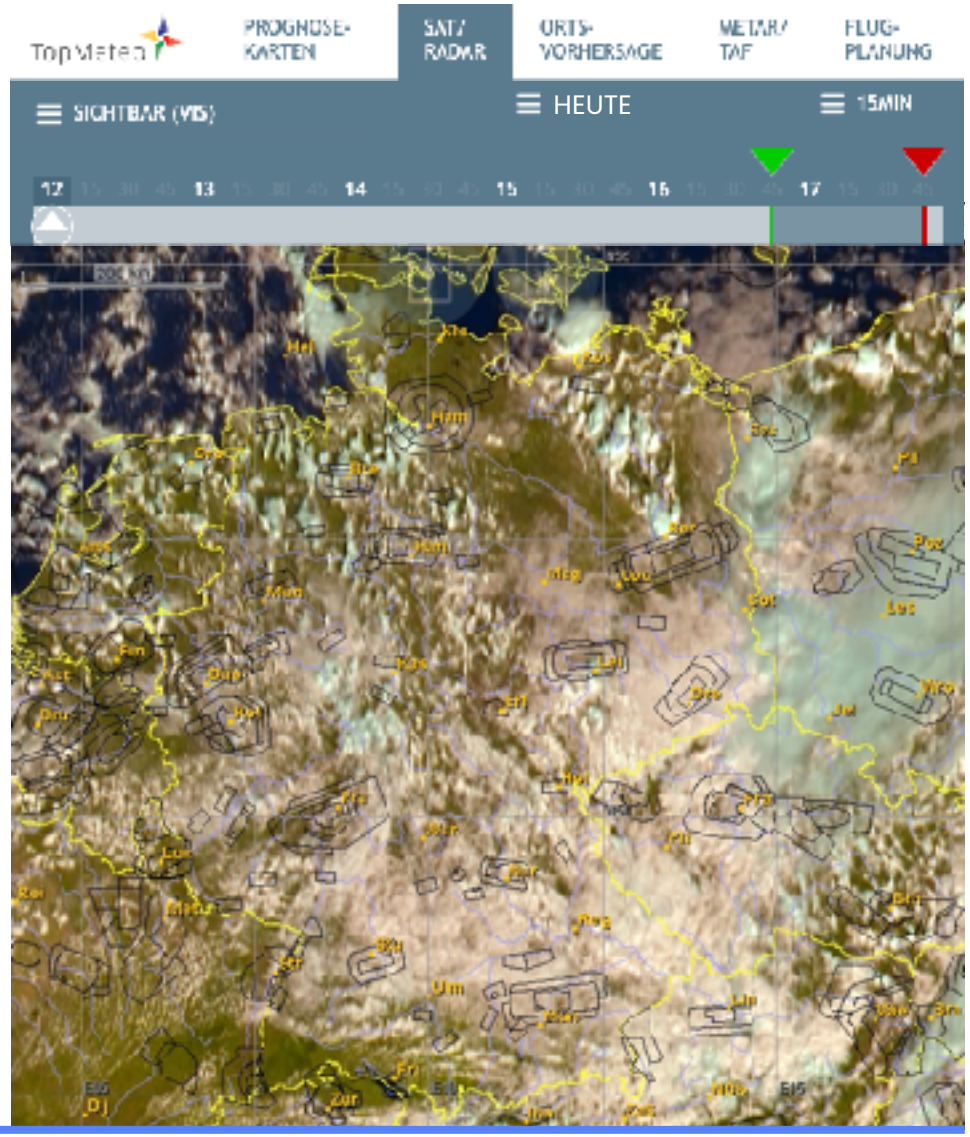
TopMeteo

1. Visible (VIS) / Night(VIS)

Repartition of cloud clusters

yellowish = low altitude clouds

Plain white = High altitude clouds (Cirrus / Cb anvils > Rain ?)



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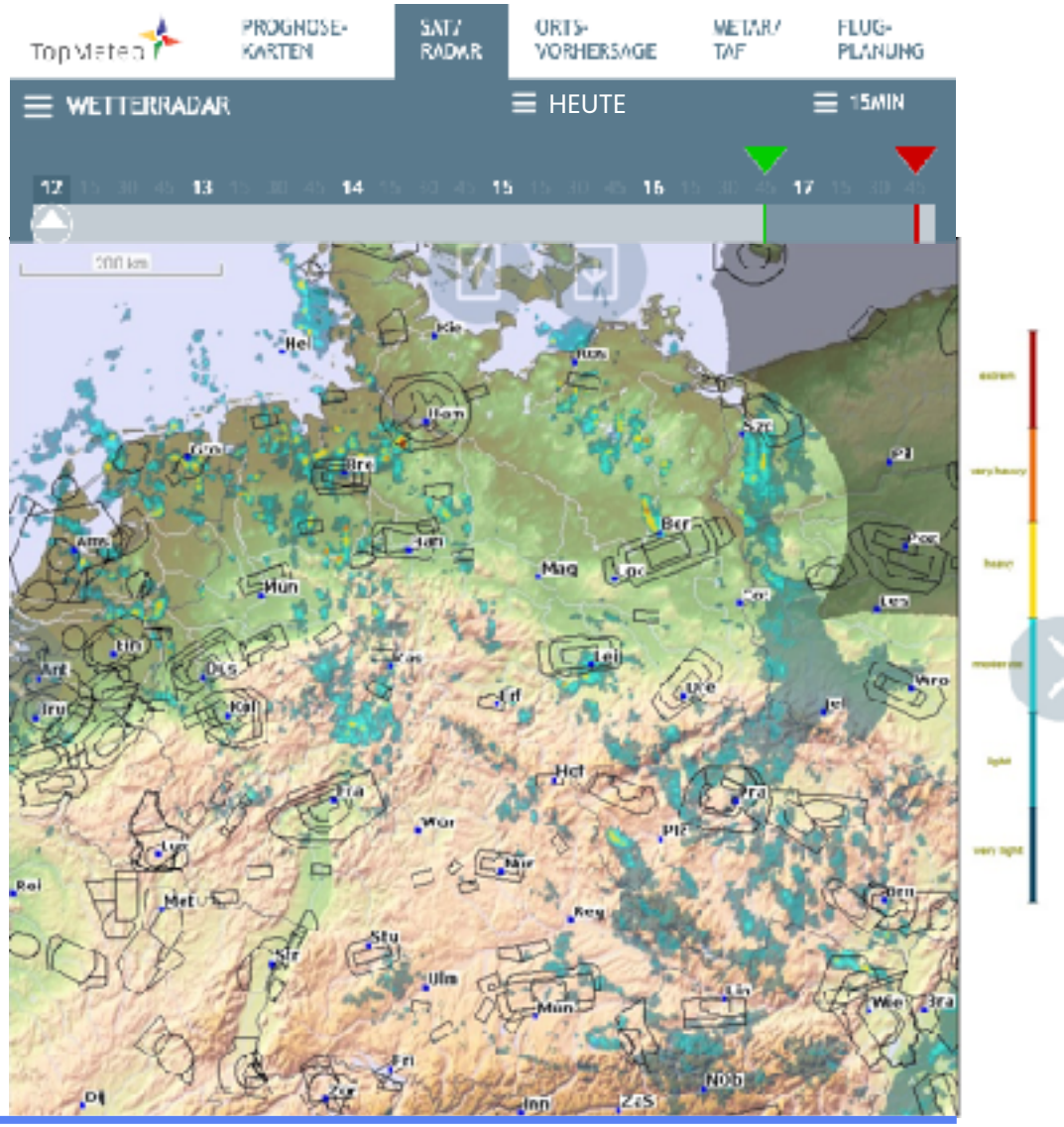
2. Weather radar

If the VIS image shows hight altitude clouds, the weather radar map should be looked at to detect eventual precipitations.



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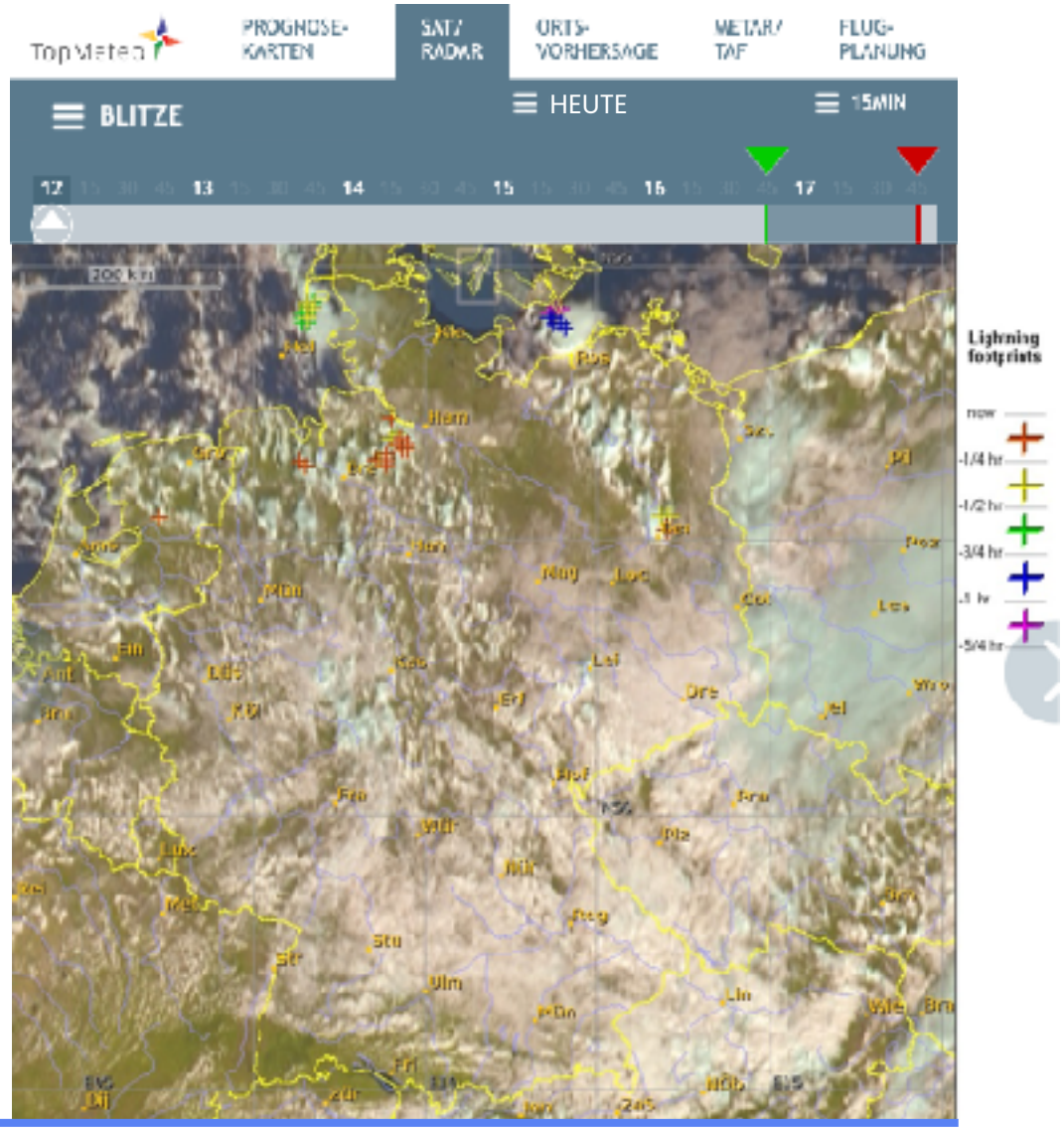
3. Lightnings

If high altitude clouds show up, have also a look at the lightning map.



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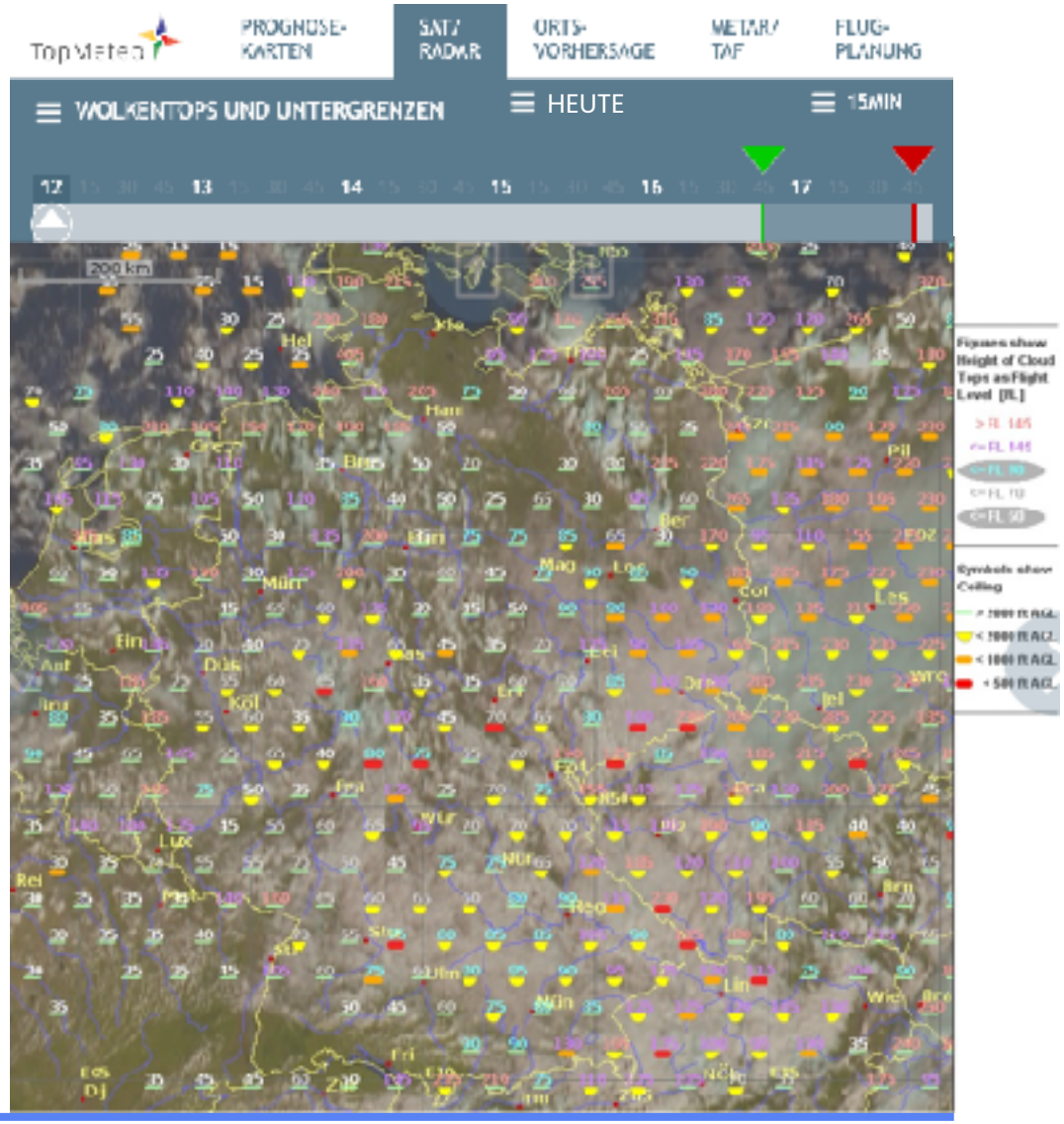
4. Tops and bases of clouds

Map showing clouds vertical extension



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Result SAT/RADAR analysis:
First possible evaluation of the weather situation

- First favourable impression : A deeper analysis is recommended

  For instance : No thunderstorms or strong rain, cloudless skies.

- Confusing situation : A deeper analysis is absolutely necessary

  For instance : Potential for thunderstorms, nature of clouds uncertain

- Flight impossible

  For instance : Ongoing thiunderstorms, strong precipitations (rain, snow, hail)

2. Day evolution and sensible weather

Day cloud evolution and sensible weather

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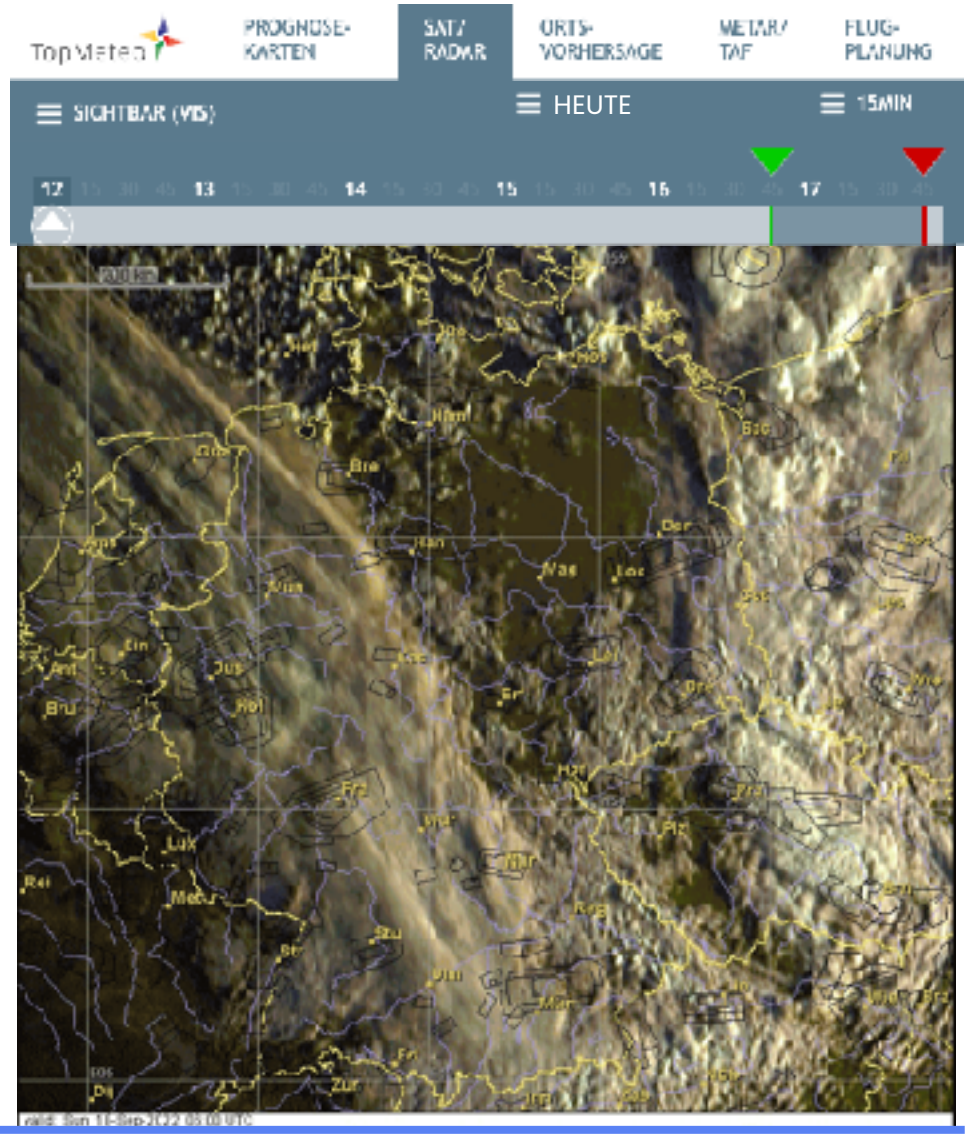
1. Visible (VIS) video editing

Dynamic repartition of cloud clusters across the day is made visible by video editing of satellite images.



Day cloud evolution and sensible weather

TopMeteo

1. Visible (VIS) video editing

Dynamic repartition of cloud clusters across the day is rendered visible by video editing of satellite images.

2. Sensible weather

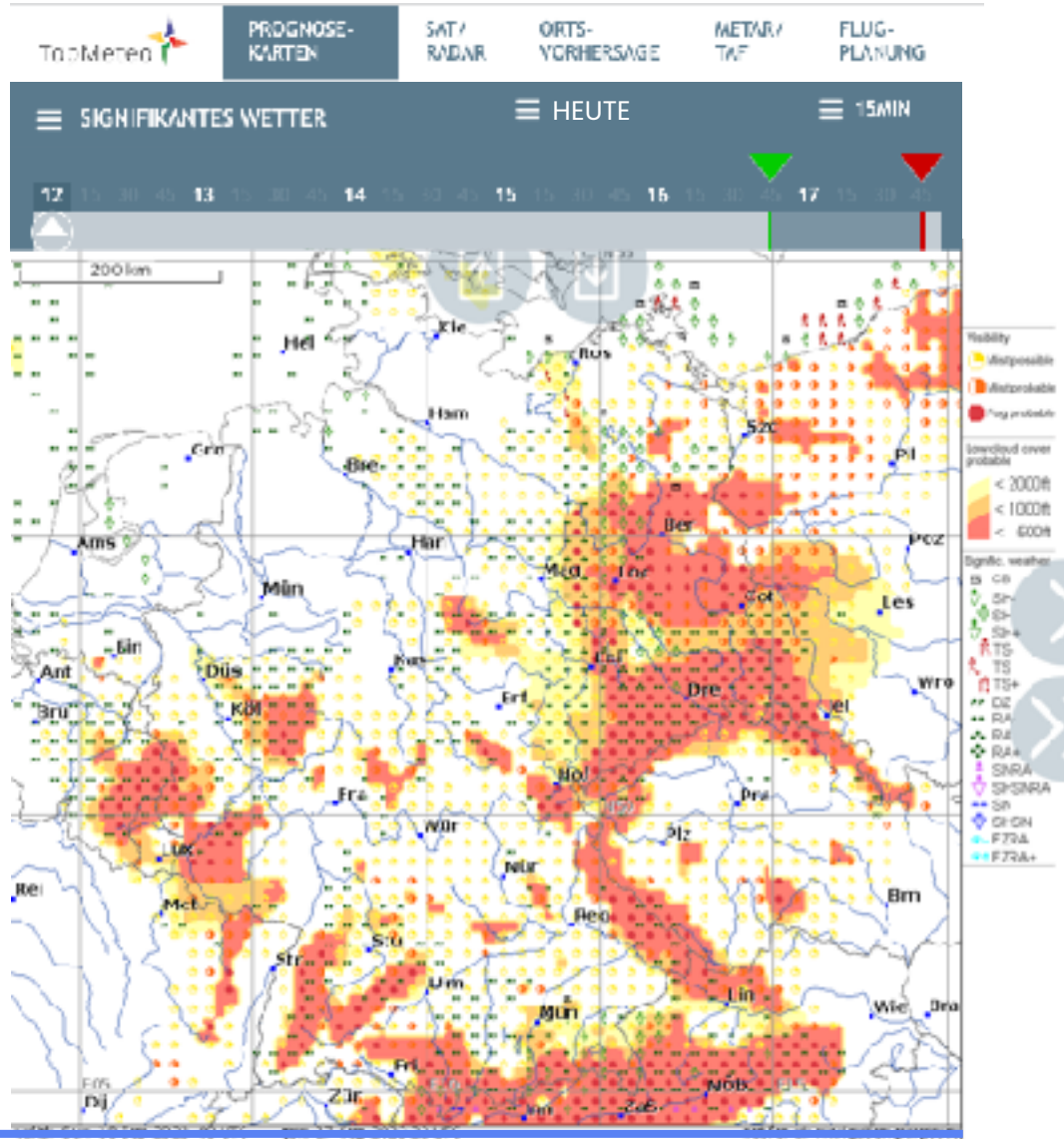
When cloud formations limit the flight opportunities in the course of the day :

> Visibility

> Fog analysis

> Convection charts (Thermals)

> Eventually front courses map at ground level



Day cloud evolution and sensible weather

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Result of cloud- and sensible weather analyses: Evaluation of possible developments during the day

- **Favourable Conditions : Start the regional and local analyses**
  For instance : No thunderstorms or strong precipitations on the route,. No sensible weather phenomena

- **Confusing situation : A deeper analysis is necessary**
  For instance : Possible thunderstorms with regional extension, ill-defined cloud formations

- **Flight impossible**
  For instance : Local thunderstorms or fog

3. Regional & local analyses

Regional & local analyses

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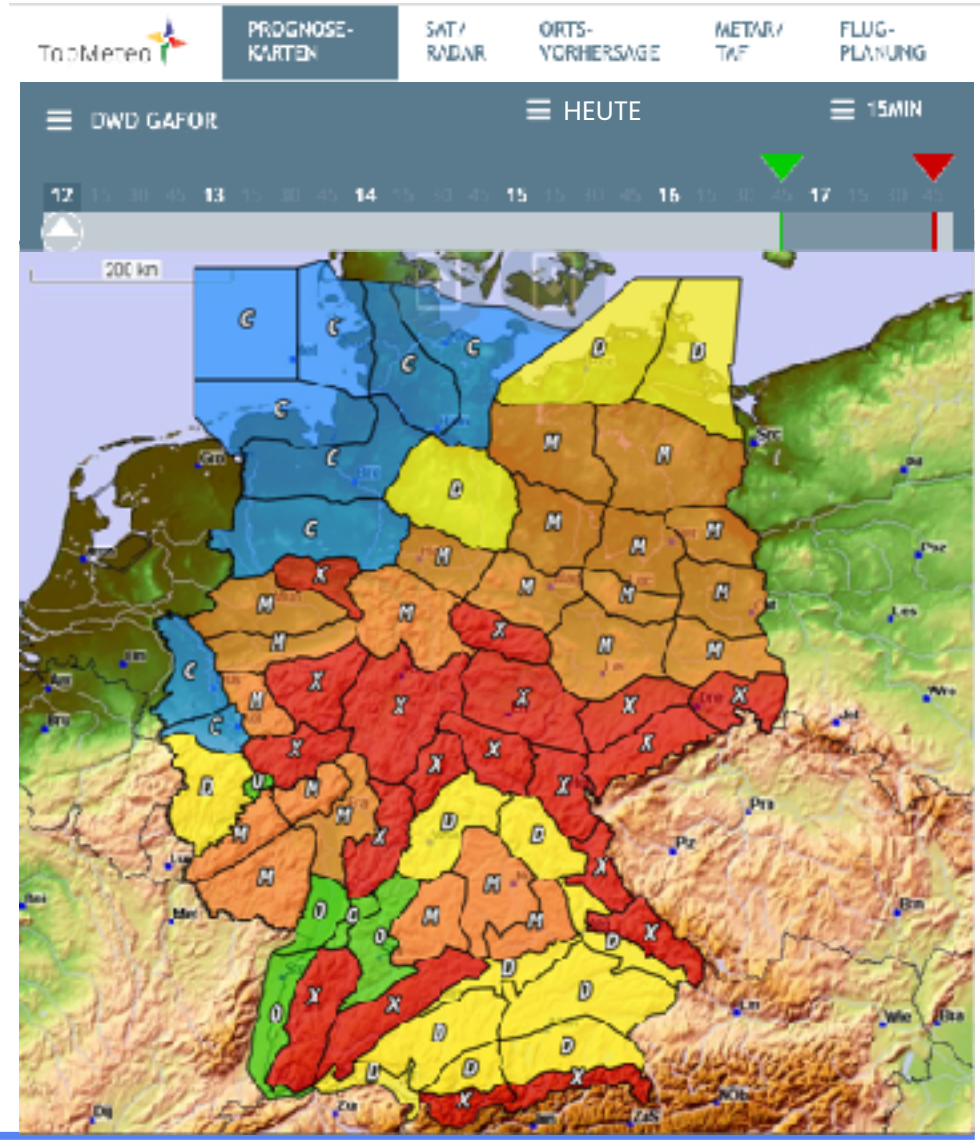
1. GAFOR

Regional forecasts



Regional & local analyses

1. GAFOR

Regional forecasts

2. Local forecast

Local analysis at take-off site, at every eventual stop-over and at destination

> VFR possible or not

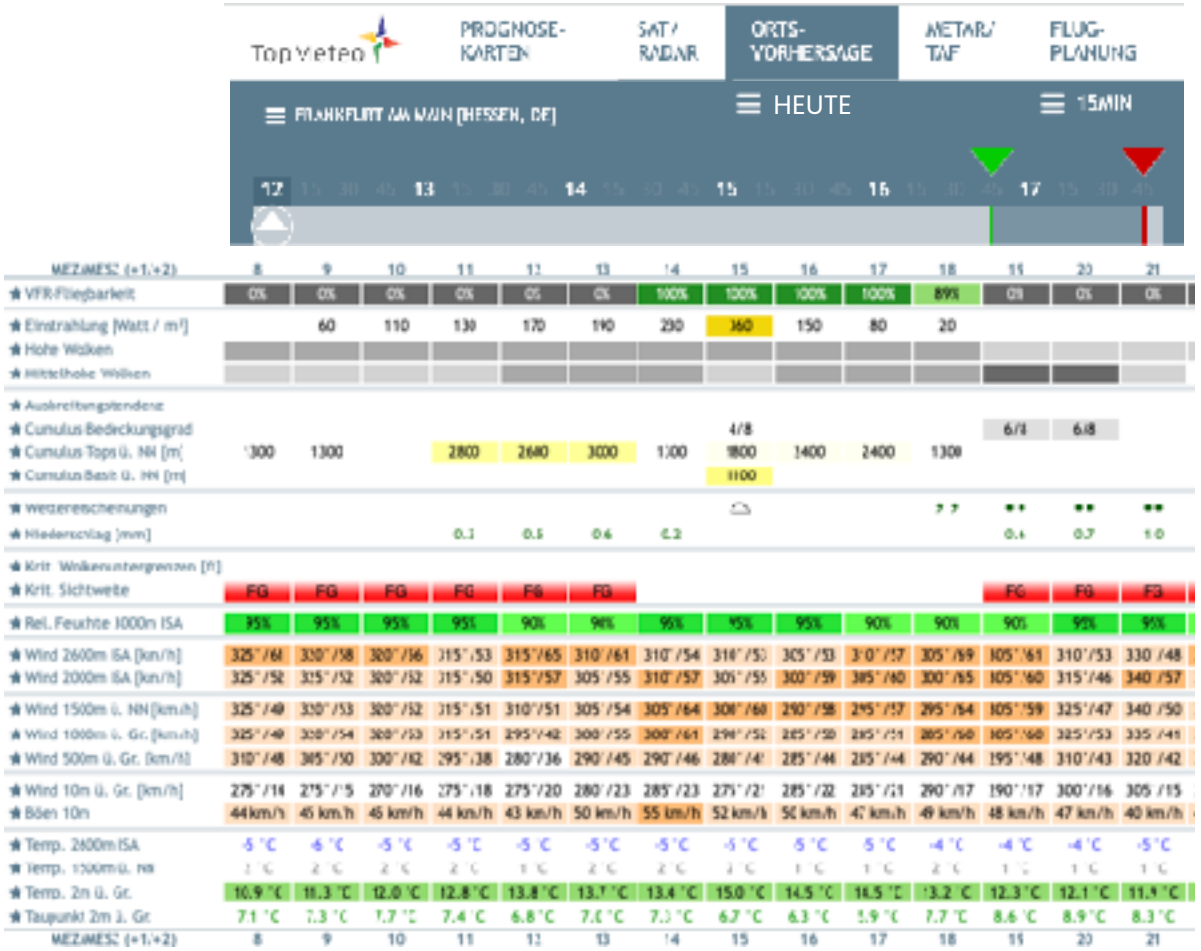
> Ground windspeed and direction

> Flight level windspeed and direction

> Calculation of flying time

> Temperature on ground and at flight level (adequate dressing ? !)

> Sunrise and sunset times



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Result of regional & local analyses:
A global estimation is now possible.

- Adequate weather within matching general conditions
  Evolution during the day as well as regional and local conditions clear and favourable

- Confusing situation : It is recommended not to fly.
  For instance : Strong winds with turbulences, icing risk of fog

- Flight impossible.
  For instance : Local thuinderstorms, heavy rain, fog or gale force winds

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Additionnal information available on

Daily-weather-briefing aircraft flying

Questions or remarks ?

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