

SATREP Online

Zentralanstalt für Meteorologie und Geodynamik



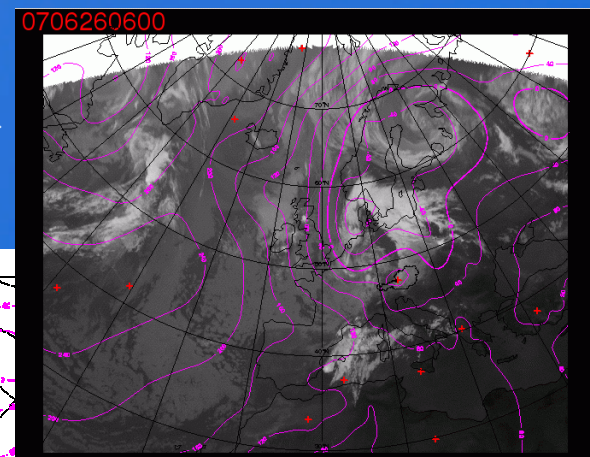
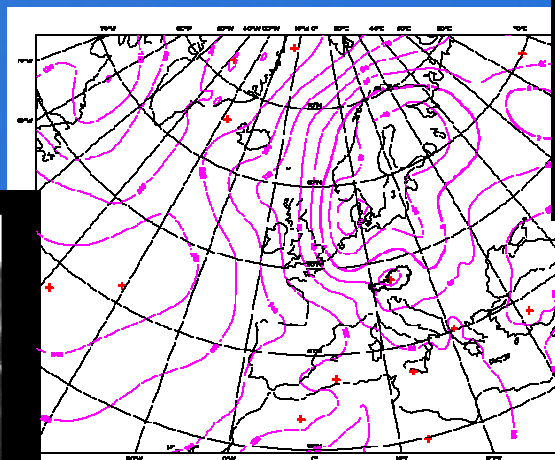
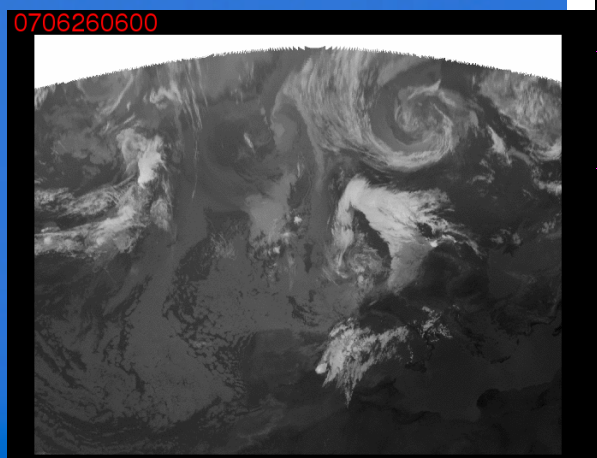
Jarno Schipper – Zentralanstalt für Meteorologie und Geodynamik,
Austria.

Vesa Nietosvaara – Finnish Met Institute, Finland

SATellite REPort



- A method of deriving a thorough view of the actual weather using:
 - satellite imagery
 - model data
 - observations



The Goal

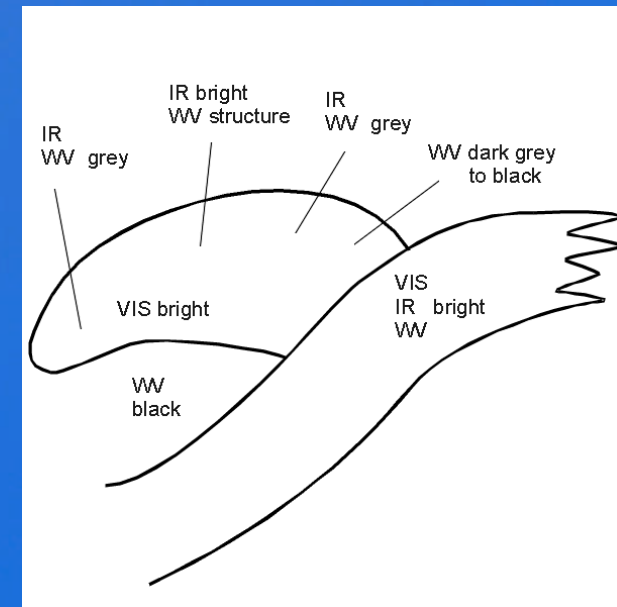


- Recognising cloud patterns in satellite images by **Conceptual Models**

The Goal



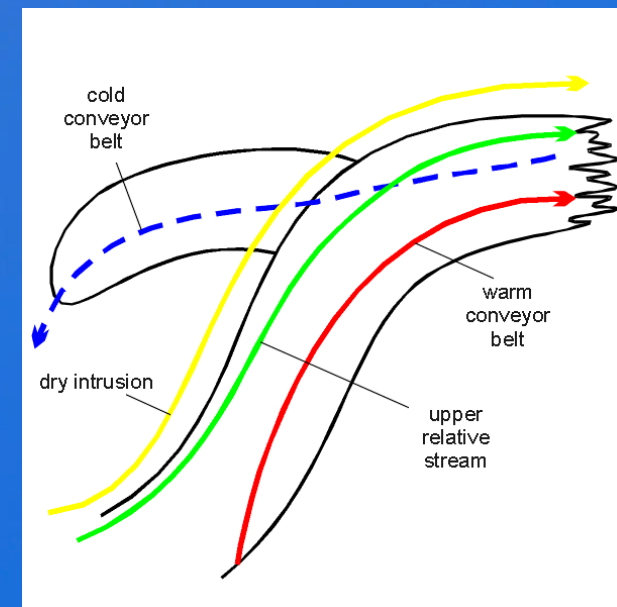
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 - Appearance in satellite image



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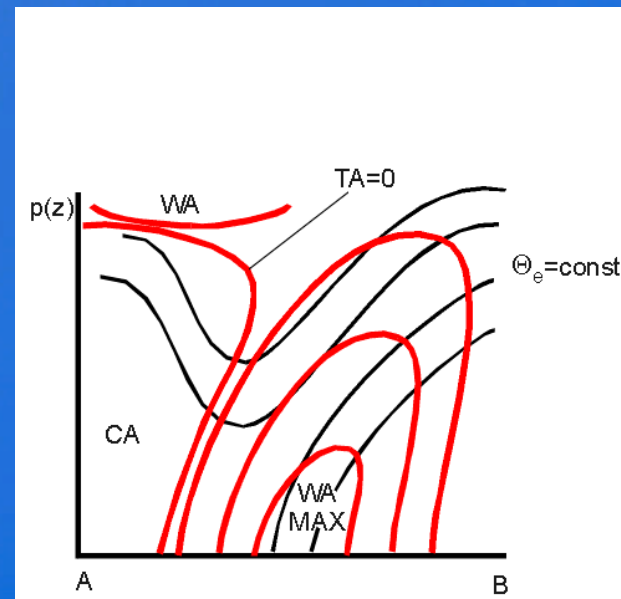
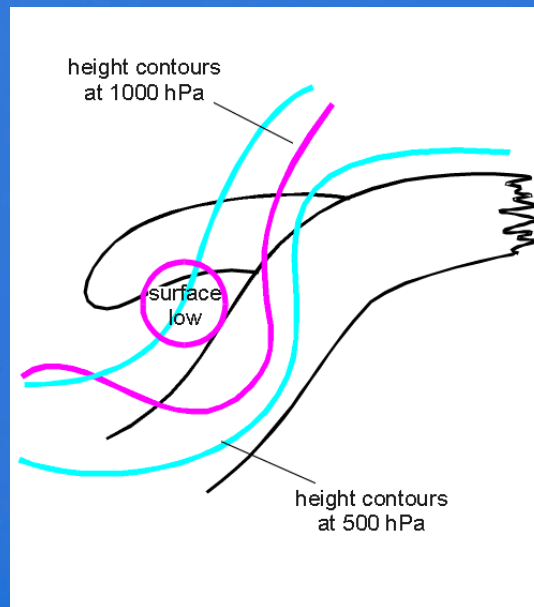
- Recognising cloud patterns in satellite images by **Conceptual Models**
 - Appearance in satellite image
 - Physical background



The Goal



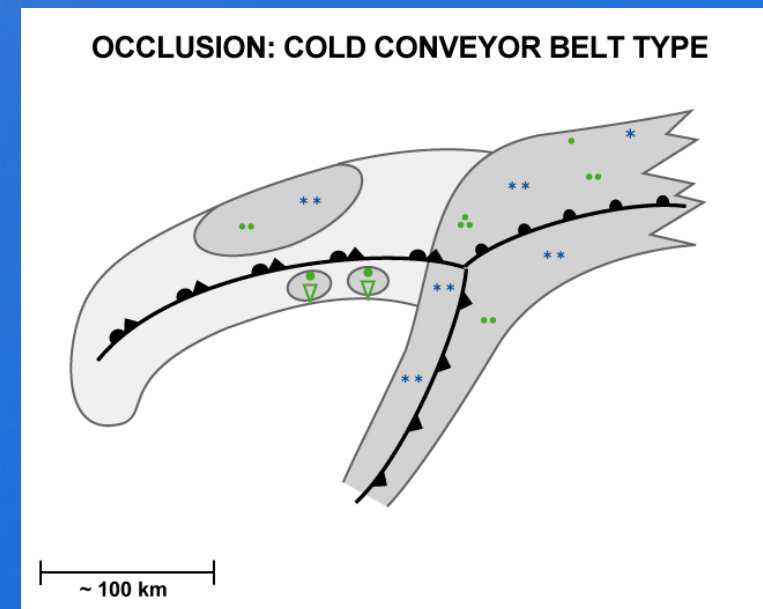
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 - Key parameters



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 - Weather events



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 - Appearance in satellite image
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- Achieving a 3D - or even 4D-mental weather picture.

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- Verifying model performance.

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 - Appearance in satellite image
 - Physical background
 - Key parameters
 - Weather events.
- Achieving a 3D - or even 4D-mental weather picture.
- Verifying model performance.
- In general, making the the use of satellite Information and NWP data more effective.

History



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- Further development with the cooperation of EUMETSAT and the Dutch (KNMI) and Finnish Meteorological Institute (FMI).

SATREP today



- Operational SatRep:
 - International SATREP developed every 6 hours by the 3 NMSs: FMI, KNMI and ZAMG):
 - Cloud systems over Europe and the Atlantic named and described

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 - Latest SATREP available at <http://www.knmi.nl/satrep>

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- **<http://www.eumetrain.org.uk>**
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 - Map Views and Cross Section Views available.
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 - Special pages for testing Conceptual Model Key parameters
- Offers a challenge to operationally analyse a satellite image using the SatRep method.

Weather Briefings



- Monthly online sessions

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 - Each session: duration 45 minutes

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 - Electronic registration via Eumetcal/Eumetrain/Eumetsat training schedules
 - Next sessions 6 September 08 UTC and 10 October 08 UTC

Weather Briefings



- An actual SatRep is discussed within a group (5-15 persons)

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 - Discrepancies between model output and satellite imagery
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 - Convective outlook
 - Discussion on particular Conceptual Models

Experiences



- Success
 - A lot of new contacts made
 - Promotion for the operational SATREP/Eumetrain
 - Weather discussions interesting

Experiences



- Success
 - A lot of new contacts made
 - Promotion for the operational SATREP/Eumetrain
 - Weather discussions interesting
- Challenges
 - Technical: production chain. Emergency plans necessary!
 - Audio: phone lines
 - Still learning how to do it!

Future plans

- **Informing** the forecaster community in Europe of this regular training activity.

Future plans

- **Informing** the forecaster community in Europe of this regular training activity.
- Inviting new colleagues.

Future plans



- **Informing** the forecaster community in Europe of this regular training activity.
- Inviting new colleagues.
- Adding new features.

Future plans



- **Informing** the forecaster community in Europe of this regular training activity.
- Inviting new colleagues.
- Adding new features.
- Finding ways to make the briefing **more interactive**.

Thank You!

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