



testbedVLC

# AEMET NWCSAF PRODUCTS TESTBED FOR AVIATION FORECASTERS.

testbedVLC

- Shared development:
  1. Cases negotiated with part of the forecasters team
  2. One forecaster taking care of part of each session
  3. The AEMET NWCSAF team acting as facilitator in the other session parts
- ADAGUC tested as viewer.
- Applicability for aviation of the NWCSAF Products tested

# Key features.

PART	ACTIVITY
Briefing	1. The leading forecasters group give a briefing on the situation
Situation Analysis	1. The forecaster groups work individually
Sharing	1. The groups share their conclusions with the other groups
Summary	1. The leading forecasters group discuss a summary
Briefing Connection	1. The leading forecasters group connect via videoconference to transmit remotely the case and the conclusions

Practical sessions(structure).

PART	ACTIVITY
Briefing	1. The leading forecasters group give a briefing on the situation
Situation Analysis	1. The forecaster groups work individually
Sharing	1. The groups share their conclusions with the other groups
Summary	1. The leading forecasters group discuss a summary
Briefing Connection	1. The leading forecasters group connect via videoconference to transmit remotely the case and the conclusions

Practical sessions(structure).



- ROLES
  - 1. Forecasters
    - 1. Leader Team
    - 2. Practice Teams
  - 2. Developers
  - 3. Observers

Roles distribution.

PART	RESPONSIBLE
Briefing	1. One forecaster who has prepared the briefing in advance
Situation Analysis	1. The same forecaster who gives the briefing & a developer
Sharing	1. The developer
Summary	1. The leading team
Briefing Connection	1. The leading team

# Responsibility distribution

PART	FINAL PRODUCT/TASK
Briefing	1. To transmit the situation to the others, analysis and phenomena to take care.
Situation Analysis	1. Map with the forecasts and the deviations. 2. Document in which each group records the evaluation of NWCSAF products.
Sharing	1. The leading group elaborates an initial summary
Summary	1. Final summary negotiated with all the groups
Briefing Connection	1. To transmit remotely the session conclusions

Practical sessions(task orientation).



Day (October 2019)	Phenomena	Date
Monday 14	Miguel Storm.	06/06/2019
Tuesday 15	Storm at Tafalla	08/07/2019
Wednesday 16	Icing. Freezing rain.	19/01/2019
Thursday 17	Deep convection. Supercells. Supercells splitting. Affecting the Zaragoza airport.	01/07/2018
Friday 18	Turbulence, Severe mountain wave. The episode lasts several days	03/02/2019

Practical sessions(task orientation).

- The general evaluation of the NWCSAF products was very positive
- The aviation community would welcome having the products in aeronautical units, e.g.: FL
- The aviation community would welcome a NWCSAF icing product.
- ADAGUC was assessed as a good target viewer to exploit the NWCSAF products.

## Outcomes & captured requirements

- Autorefresh will be very welcome on the viewer
- FIR Limits are needed on the maps

Outcomes & captured requirements

- The need of having compound layers, phenomena related, was raised (to be assessed), e.g.:
  - RDT, CRR-ph, humidity differences, clouds, for convection
  - LI, CI, winds, for preconvective environments
  - ASII-TF, winds, RDT, for turbulence.

## Outcomes & captured requirements

- After the testbed the dialog has continued with the forecasting unit:
  1. They are using ASII-TF widely
  2. They are using the AEMET composite for Icing
  3. They are using widely RDT-CW
  4. ...

Channel opened!