

AMMA-AOC FORECASTING:

TRAINING

NEXT STEPS

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ACMAD

AMMA-AOC FORECASTERS TRAINING COURSE

ACMAD, Niamey, Niger

22 May - 02 June 2006

Attendance

- Eighteen (18) forecasters
 - Eleven (11) from countries in west African sub-region
 - Seven (7) from the host country, Niger.

Overall objective:

- Prepare for the operation of the AMMA Operational Forecasting Centre (AOC-F)

specific objectives:

- Review operational forecasting methods/tools for the West African Monsoon and extent to which they integrate up to date scientific knowledge and technology (space based technology in particular);
- Review recent scientific findings and technological developments relevant to monitoring and forecasting of West African Monsoon;
- provide framework for knowledge sharing and experiences in the preparation of forecasts intended to best fit AMMA specific objectives.

Organisation:

- Plenary sessions,
 - various aspects of the AMMA programme organisation and west African monsoon characteristics;
- Practical sessions,
 - forecasting tools available for purposes of operations of the AOC;
- Participants presentations,
 - forecasting experiences in their countries.



AOC Operation

Daily briefings

- Morning 08:00 Afternoon 17:30

Team composition

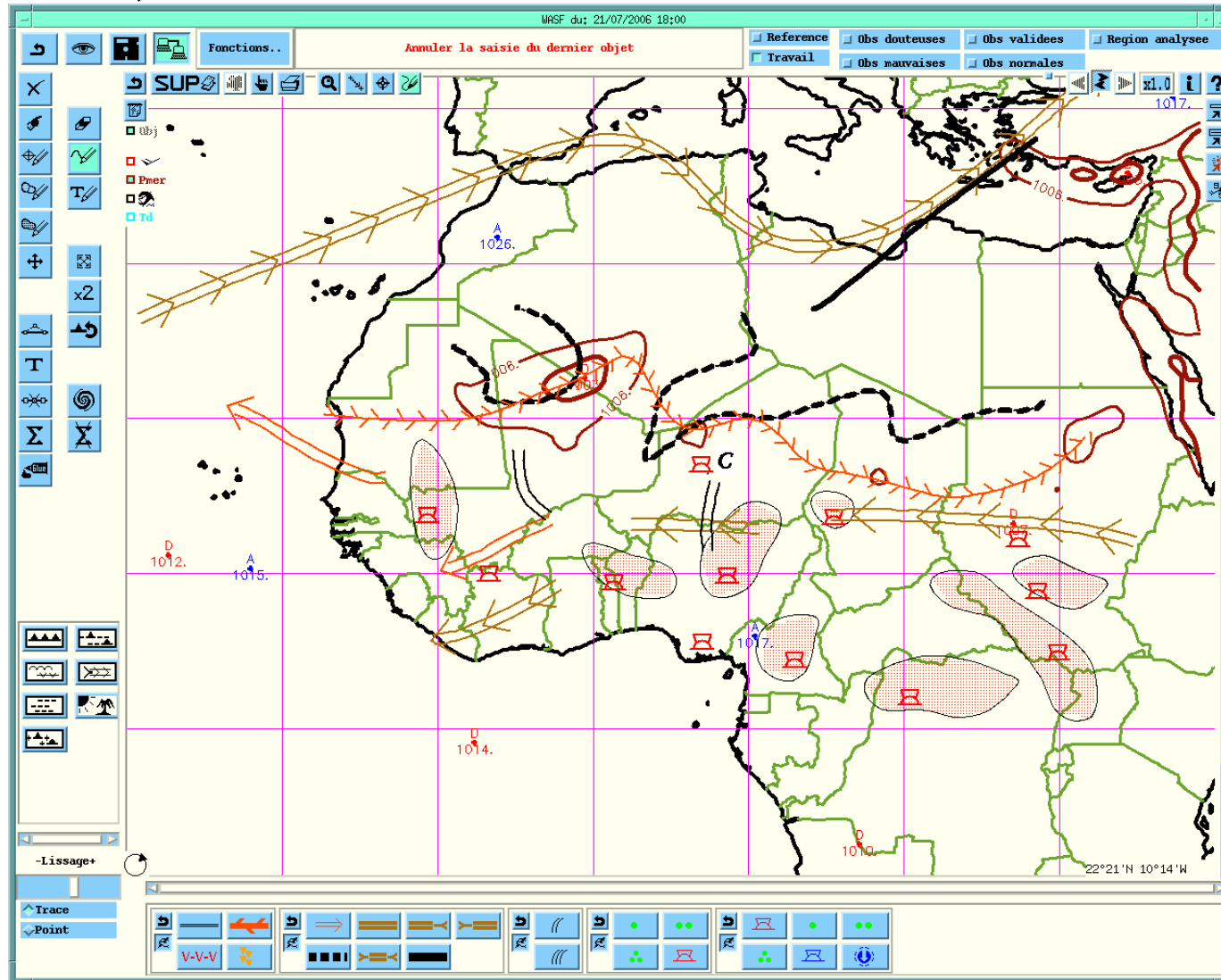
Team 1: 1st June –15th July 5 forecasters

Team 2: 16th July – 25th August 6 forecasters

Team 3: 26th August – 30 September 5 forecasters

Achievements

Definition of presentation of synthetic analyses and forecasts
WASA/WASF;



Achievements (Cont'd)

a team of west African forecasters who will be expected to continue to work in synergie, using the most modern forecasting tools of the day;



Achievements (Cont'd)

- Initiation of the preparation of a «Forecasters' Reference Book for West Africa»
 - forecasting team is expected to contribute by adding real-time case studies;

Achievements (Cont'd)

- forecast support to the operational needs of Principal Investigators (PIs) and platforms (e.g. aircraft and ground-based) during the Special Observing Period field campaigns
 - SOP started 1st June 2006, two days before end of the course.

acknowledgements

- Meteo-France;
- Medias-France
- The world Meteorological Organisation;
- The AMMA Programme office in Niamey
- The national meteorological services of west Africa sub-region.

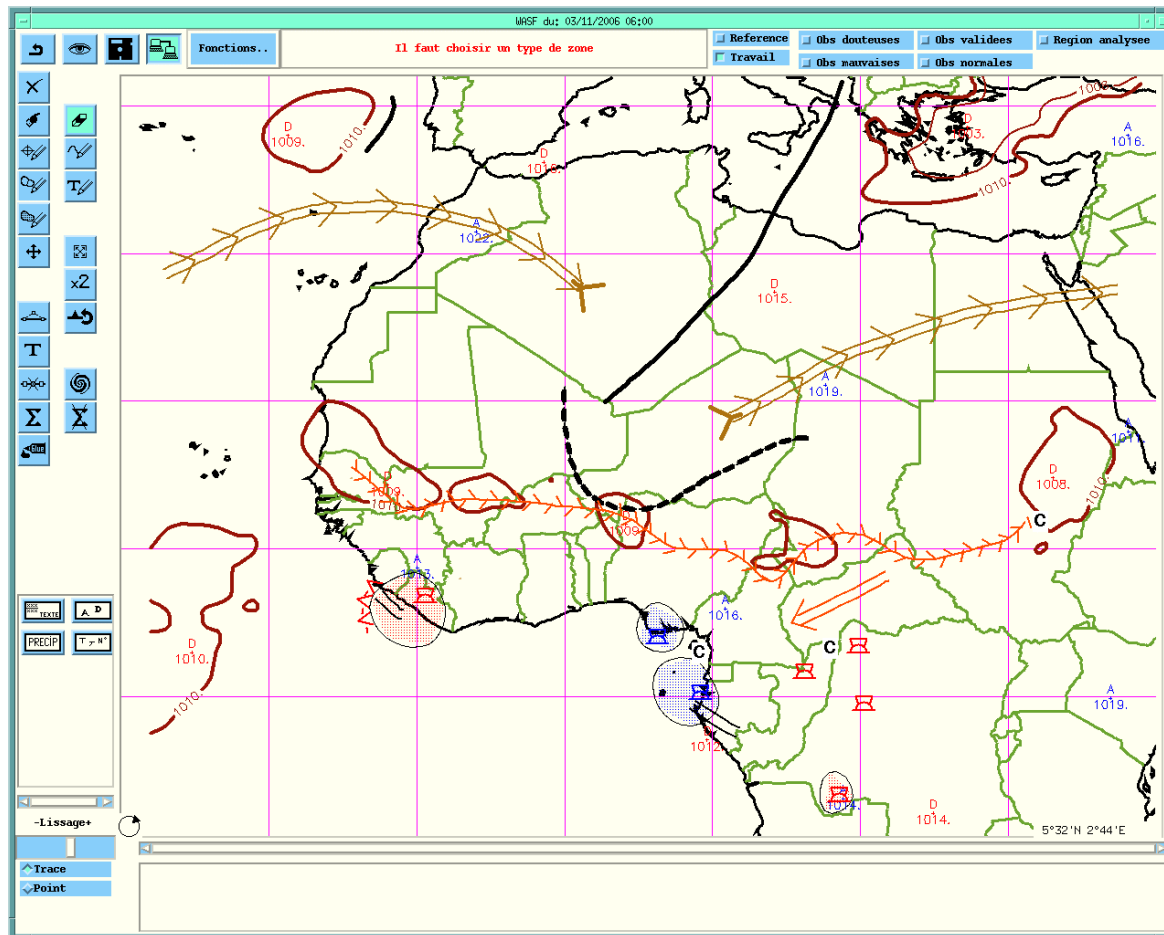
Follow-up activities

a) Continuation of production for AMMA zone;

Starting 25th October 2006,

WASA-D-1/18z, D/06z

WASF-D/18z, D+1/06z



Production assured on
a 7 days a week basis

Output available on
AOC and ACMAD sites

Follow-up activities (Cont'd)

- Extend Synthetic Analysis and Forecast techniques to the rest of Africa.

Severe Weather Forecasting Demonstration Project (SWFDP)

- WMO/CBS Project
- **Participation:**
- **NMHSs**-Madagascar, Mozambique, Botswana, Zimbabwe, Tanzania
- **Regional Centres**-Pretoria, La Reunion, ACMAD
- **Global centres**-NOAA/NCEP, UKMO, ECMWF

Project Aim

- demonstrate how co-operative work among meteorological centres can be further implemented in order to enhance the forecasting process of several types of severe weather and to improve the warning services at the NMHSs

Recall THORPEX

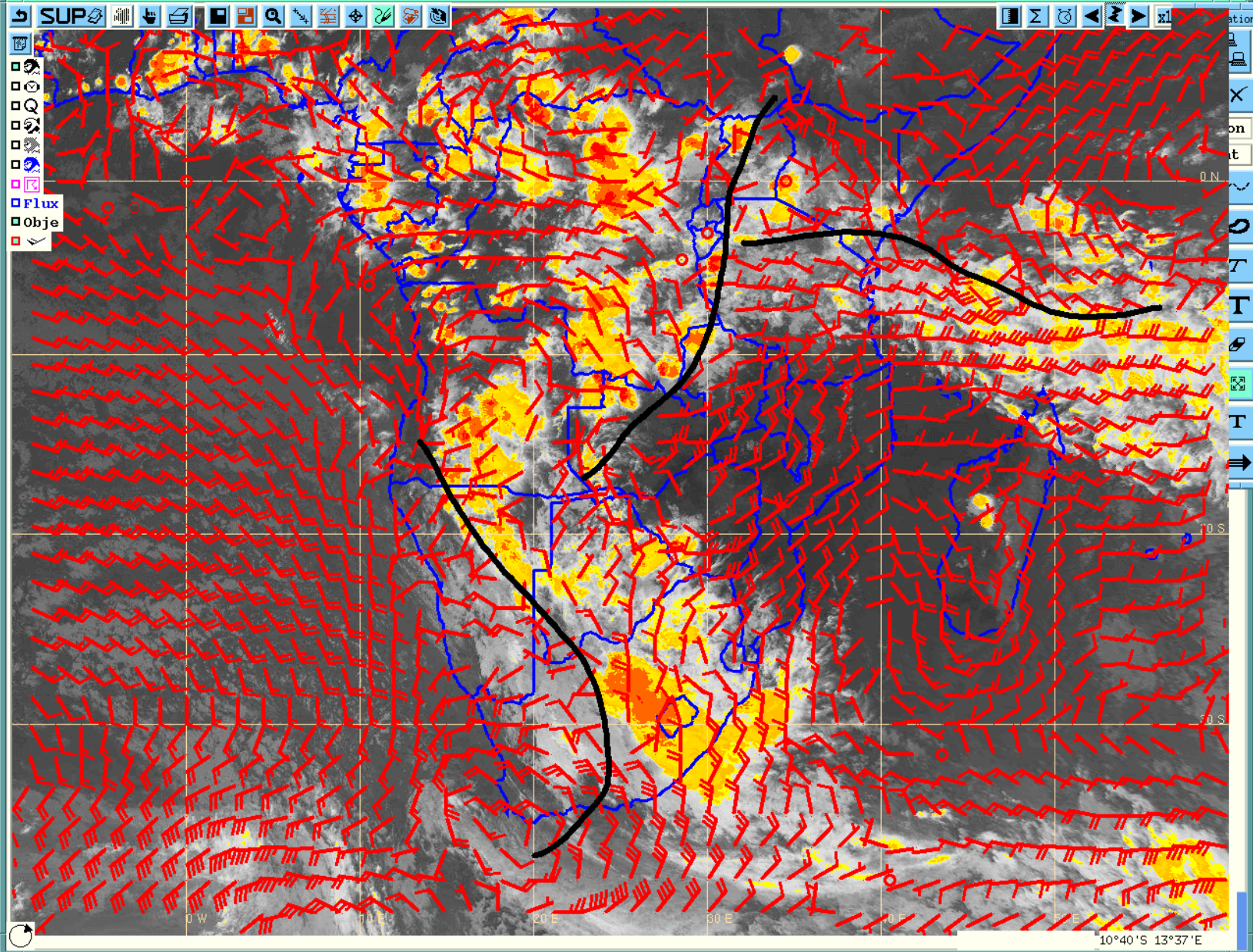
THORPEX aim

- to improve the skill of the weather forecasts, especially high impact weather events, by taking advantage of the probabilistic forecasts and experimenting with new techniques and products.

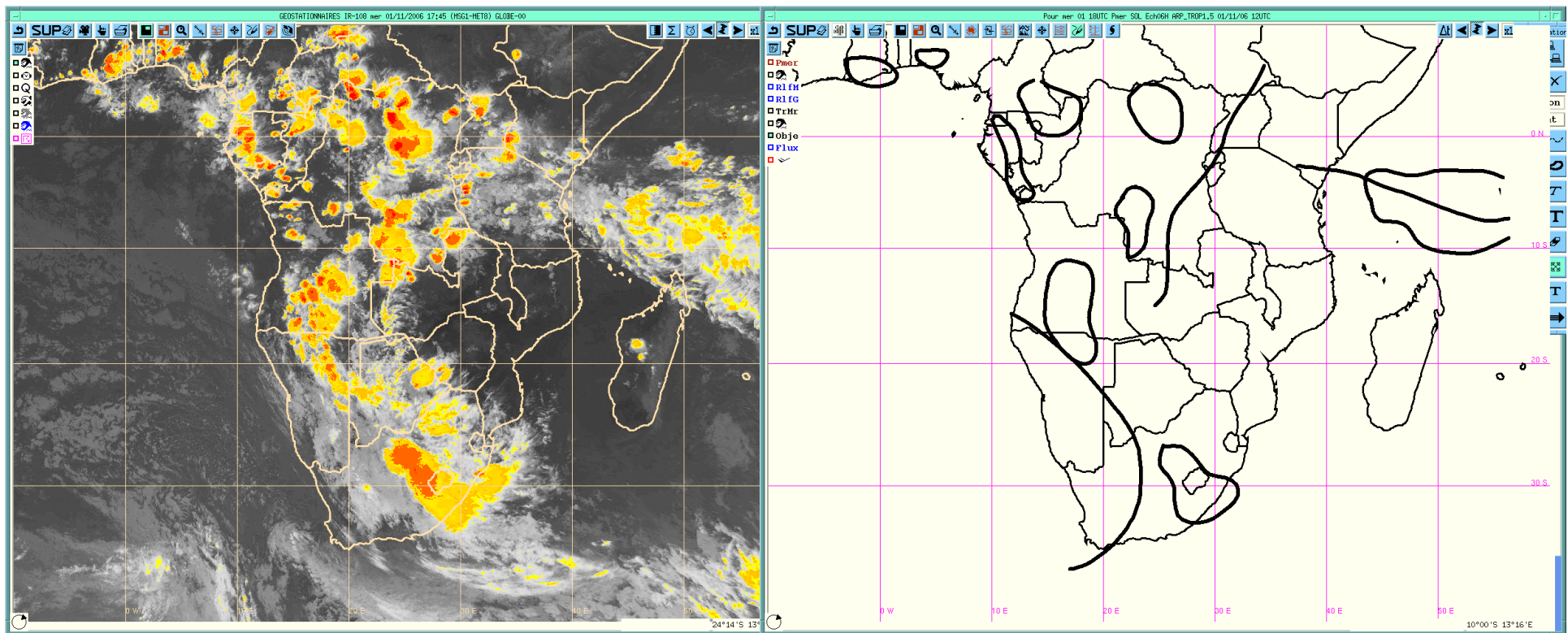
SWFDP

- offers opportunity to prepare many NMHSs and all GDPFS centres to implement and benefit from the outcomes of the THORPEX research and development programme

**Extending Gains of AMMA-AOC
Forecasting to SWFDP.**



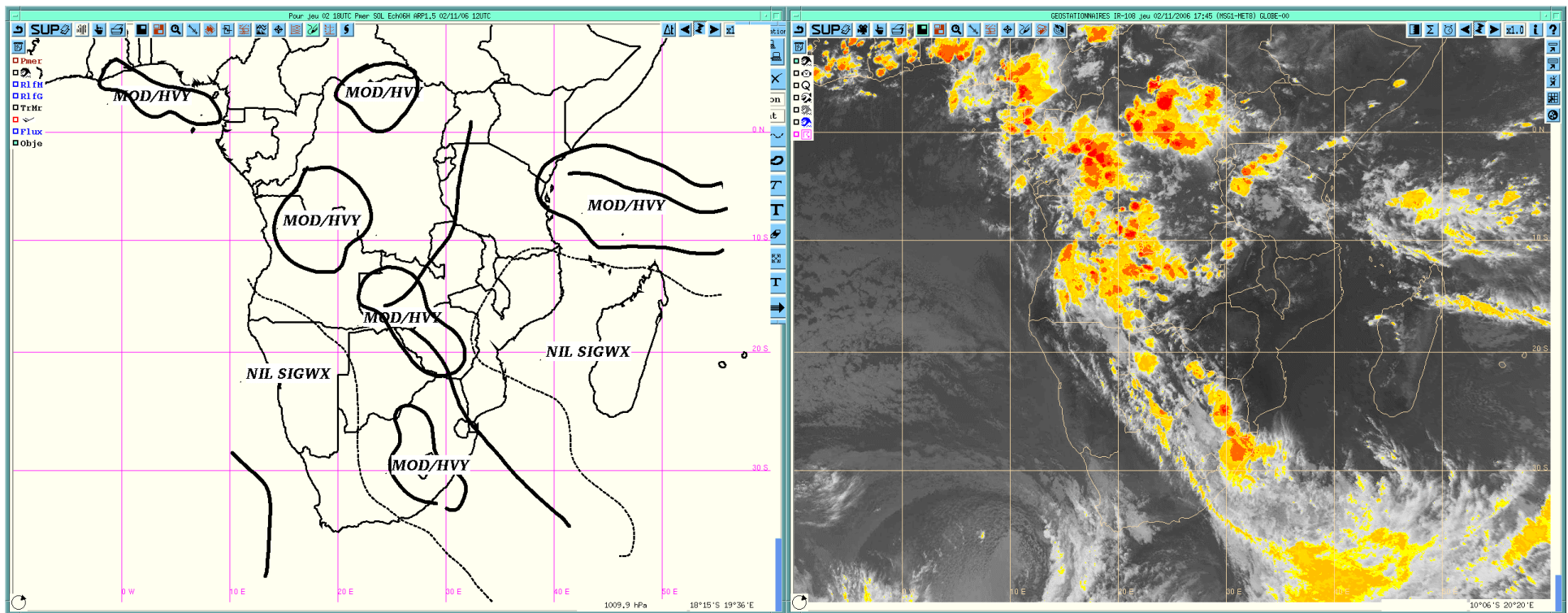
- Southern African synthetic analysis
– **SASA** valid 18z 01/11/06



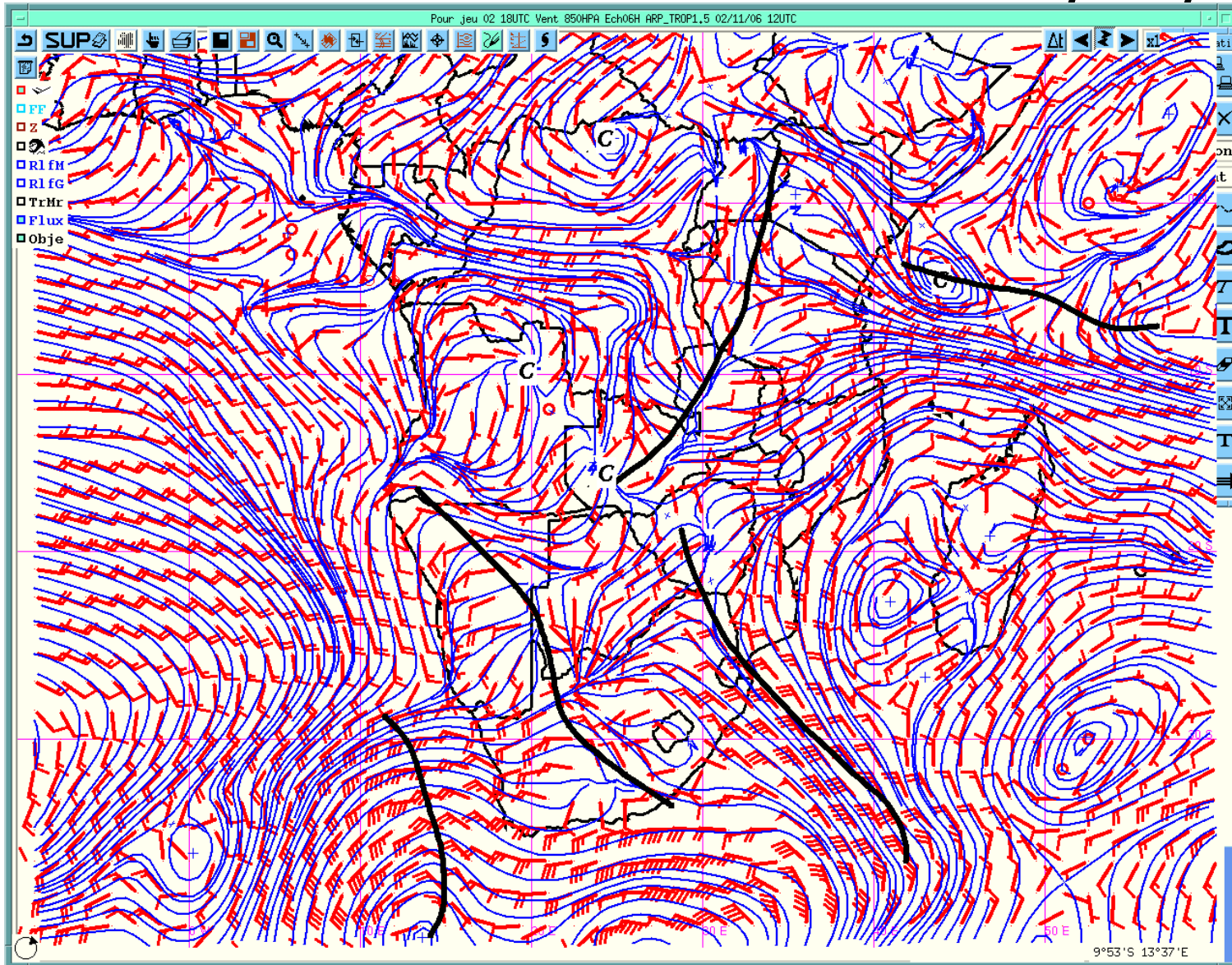
Southern Africa synthetic forecast

SASF Valid 18z 02/11/06

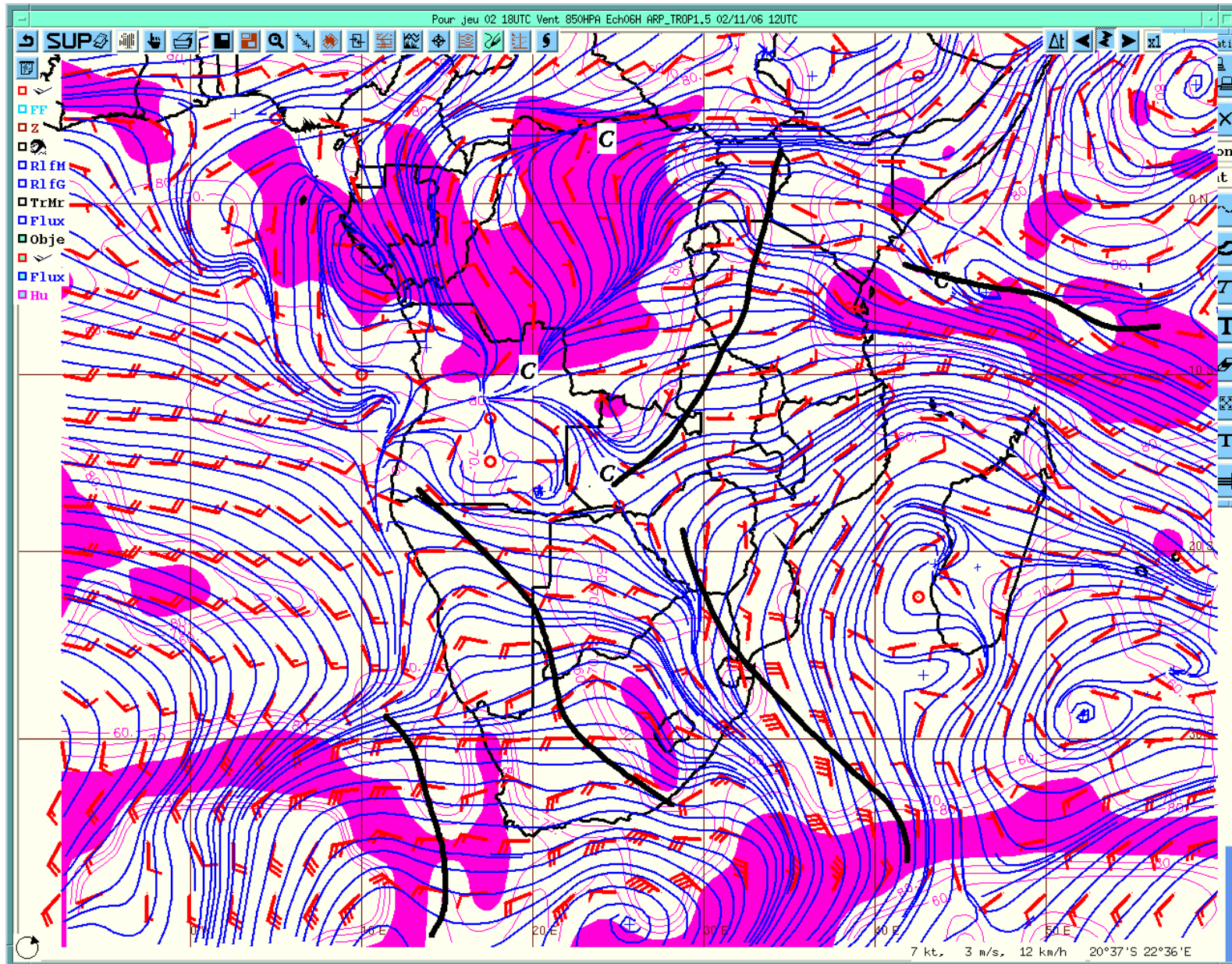
SASF Verification



Arpege-Tropique Winds and Humidity – 850hPa T+24H VT 18Z 02/11/06

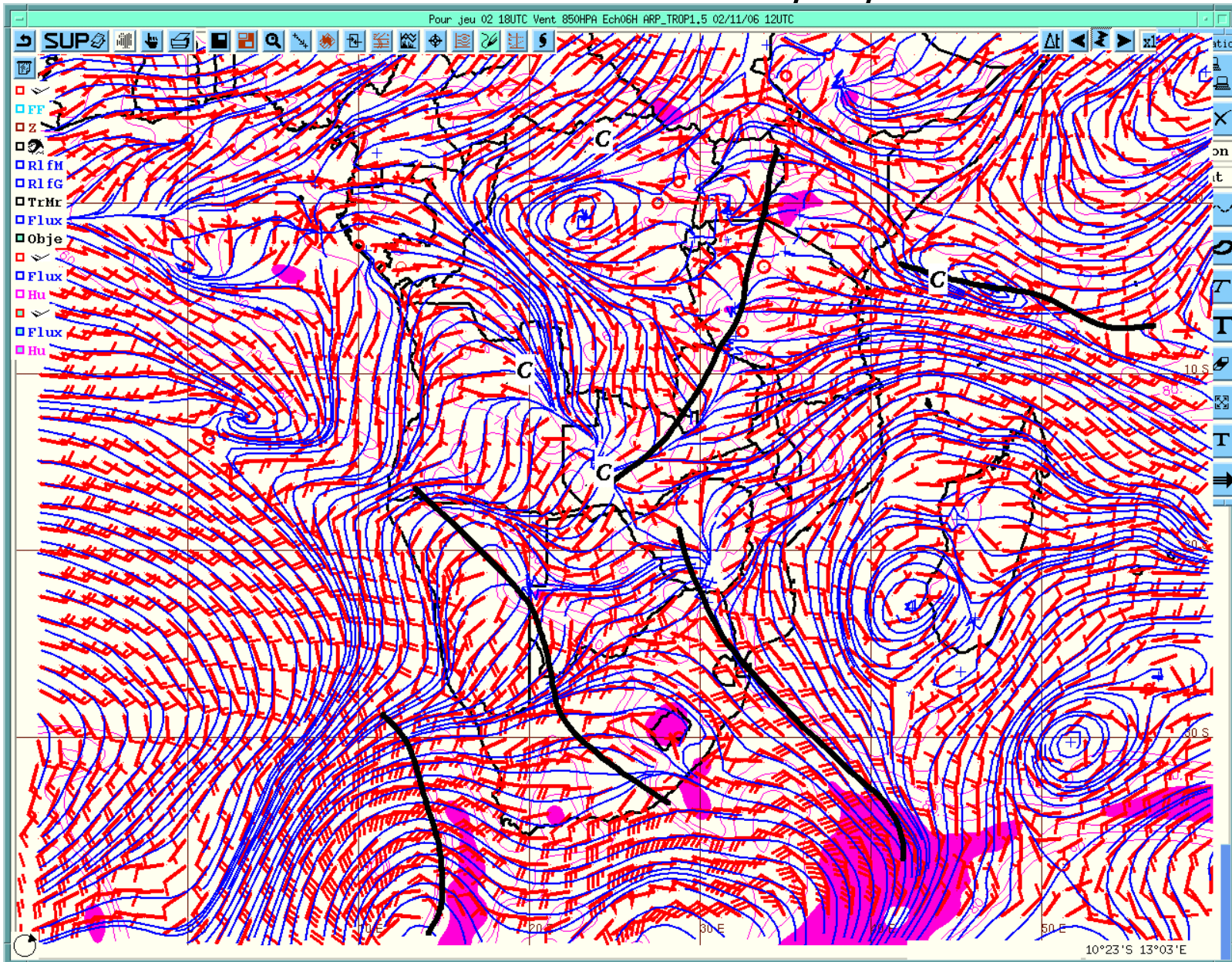


ECMWF Winds and Humidity – 850hPa T+24H VT 12Z 02/11/06



UKMO Winds and Humidity – 850hPa

T+24H VT 18Z 02/11/06



configuring domains for sub-regions of Africa similar to the one for AMMA region, for production of
Synthetic Analyses and Forecasts.

What is needed

- configuring domains for sub-regions of Africa similar to the one for AMMA region, for production of:
 - Synthetic Analyses
 - Synthetic Forecasts.
- Expand the range of symbols used
 - E.g. Dust cannot be represented on WASA/WASF

OR

- configuring SA/SF production over whole of Africa with possibility of zooming over a sub-region

THANK YOU FOR ATTENTION