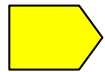


NWC SAF Product Assessment Review Workshop

LF López Cotín. IOP NWC SAF Manager

Madrid, 17th to 19th October 2005

NWC SAF User Feedback

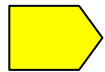


Standard user feedback:

Helpdesk,

SPRs and SMRs procedure

Email



Strategy for a reinforced user feedback:

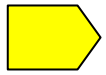
Product Assessment Review

User Survey + Workshop

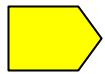
Short Term Missions

Visiting Scientist Activities

NWC SAF Product Assessment Review Objectives



**Revising the Product Quality and Applicability
of the SAF NWC products**



**Recapping new User Requirements to steer
further developments up to finalise *IOP*, and
for next *Continuous Development and
Operations Phase* planning**

SAFNWC/MSG, SAFNWC/PPS Users

30 licenses have been received and signed

DWD (Germany)
FMI (Finland)
SMHI (Sweden)
TMS (Turkey)
OMS (Hungary)
INMH (Romania)
Météo Swiss (Switzerland)
IM (Portugal)
UGM (Italy)
RMIB (Belgium)
HNMS(Greece)
DMHZ(Croatia)
DNMI(Norway)
ARSO(Slovenia)
MetEire(Ireland)
Météo-France (France)

KNMI (The Netherlands)
ZAMG (Austria)
BGIO (Germany)
Met Office (UK)
DMI (Denmark)
SHMU(Slovakia)
MetOffice(United Kingdom)
IMGW(Poland)
NationalUniversityIreland
ARPAL (Italy)
ARPA(Italy)
UniversityFriburgo(Swiss)
CIMA (Italy)
RuderBoskovic Inst.(Croatia)
NIMH(Bulgaria)

Potential Users

17 Expression of Interest. Process on going

Office National de la Météorologie Algérienne (Algeria)

CESI (Centro Elettrotecnico Sperimentale italiano (Italy)

CZ CMHI (the Czech Republic)

Meteorological Office of Indian Navy (India)

SAWS South African Weather Service (South Africa)

Rhenish Institute for Environmental Research at University
Cologne (Germany)

LMD Laboratoire Météorologie Dynamique (France)

Telespazio (Italy)

PMMC Polish Military Meteorological Centre (Poland)

Potential Users

17 Expression of Interest. Process on going

CSIR – Satellite Application Centre (South Africa)

CM SAF – DWD (Germany)

Kongsberg Spacetec AS Meterological Applications (Norway)

Lockheed Marting (USA)

Austro Control (Austria)

Austrian Military Weather Service (Austria)

Civil Protection Marche Region (Italy)

NWC SAF PAR Agenda

This afternoon

CONSORTIUM PRESENTATIONS ON PRODUCT VALIDATION RESULTS

*MSG Products
PPS Products*

Adjourned at 18:30

NWC SAF PAR Agenda

Tomorrow , start at 09:00

USER FEEDBACK:

USERS EXPERIENCE

USERS SURVEY SUMMARY: PRODUCTS AND SERVICES

Lunch 14:00

DISCUSSION ON PRODUCT QUALITY AND APPLICABILITY

Adjournd at 18:30

NWC SAF PAR Agenda

Day after tomorrow , start at 09:00

DISCUSSION ON NEW USER REQUIREMENTS,

and

PLENARY SESSION FOR CONCLUSIONS

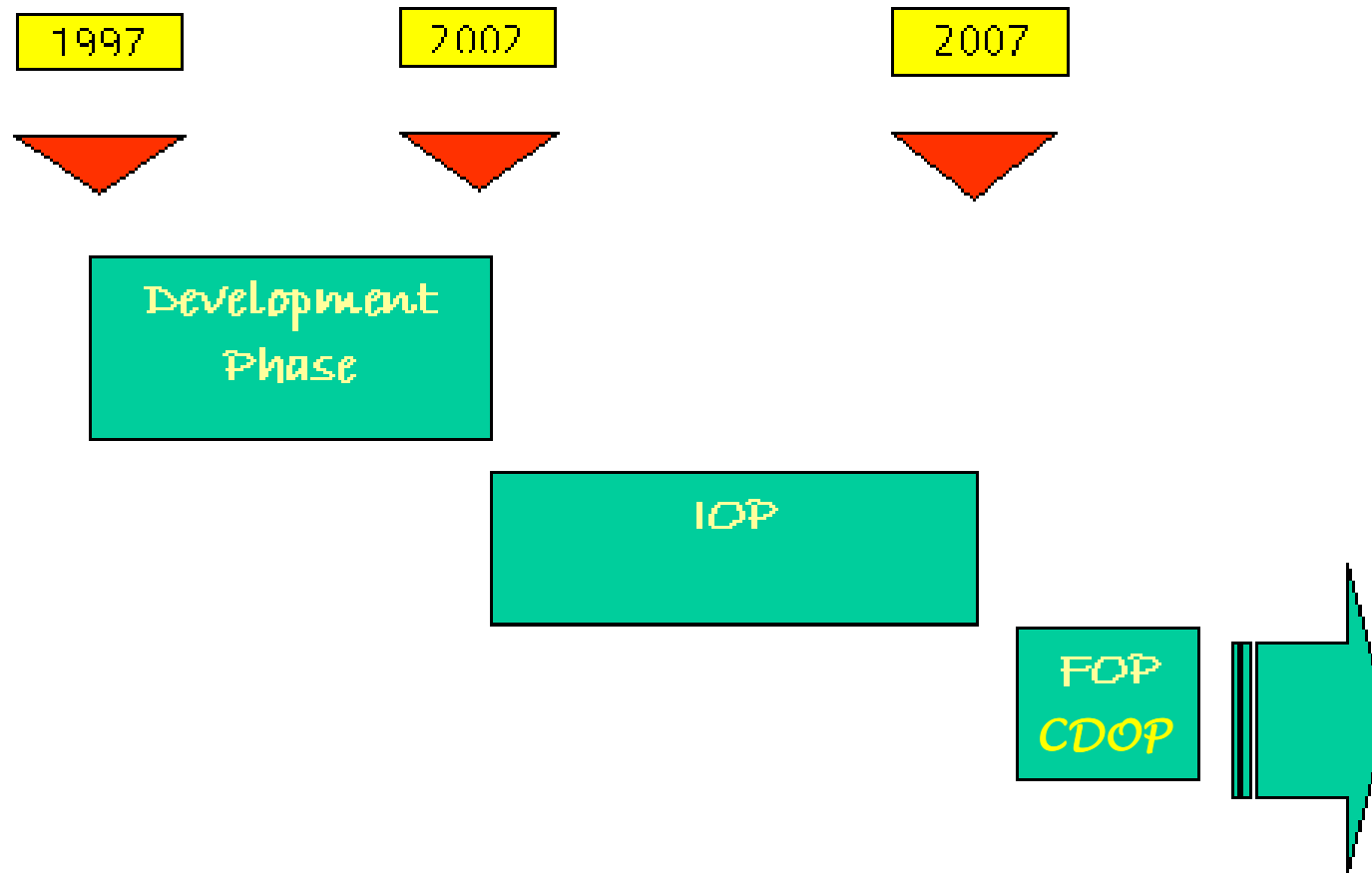
Adjournd at 14:00

NWC SAF PAR Social Event

Tomorrow , at 20:30

Taberna del Alabardero
In front of the Royal Palace

Background: NWC SAF Phases: the IOP



... Background... **DEVELOPMENT PHASE**

- Agreement of Co-operation of a Satellite Application Facility on support to Nowcasting and Very Short-Range Forecasting by EUMETSAT and INM signature, December 1996.
- NWC SAF was aimed to produce the Software to deal with the Nowcasting and Very Short Range Forecasting using MSG SEVIRI data the characteristics
- Additionally, SMHI had developed additional Software Modules during the Development Phase to be used by the AVHRR (NOAA and future EPS) data.

Project kick-off: February 1997

Development Phase End: February 2002

... Background... **The Initial Operations Phase**

IOP Objectives....

To mitigate the impact of the real SEVIRI data availability delay

- **Complete the development of the MSG products, and tuning using real SEVIRI data, as available from the MSG-1 mission;**
- **Perform Scientific Product Validation the SAFNWC/MSG products with real SEVIRI data;**
- **Improve the SAFNWC/MSG products and plans according to the results of the validation activities;**

... Background... **The Initial Operations Phase...**

...IOP Objectives...

To provide initial operations activities:

- **Deliver updated SW Packages for SAFNWC/MSG (and SAFNWC/PPS) during IOP as necessary according maintenance activities results, and planned improvements;**
- **Give support to users by means of a Help Desk (web site) and training activities;**

... Background... **The Initial Operations Phase**

...IOP Objectives...

To complete the not initially planned PPS activities:

- **Complete the engineering of the SAFNWC/PPS package: common SW developments and integration into a single package;**
- **Perform the Validation of the PPS Products using NOAA AVHRR/AMSU-B; and EPS data when Metop-1 available;**

Additionally,

- **Collect new User Requirements for further developments;**
- **Implement new developments according to the upgraded User Requirement Document; and**
- **Be a reference for Nowcasting aspects for EUMETSAT**

... Background... **Responsibilities**



MSG Air Mass Products, Convective precipitation, Wind Product, MSG Software common elements, MSG elements integration in a single package.



MSG Clouds and Thunderstorm Products (SW modules).

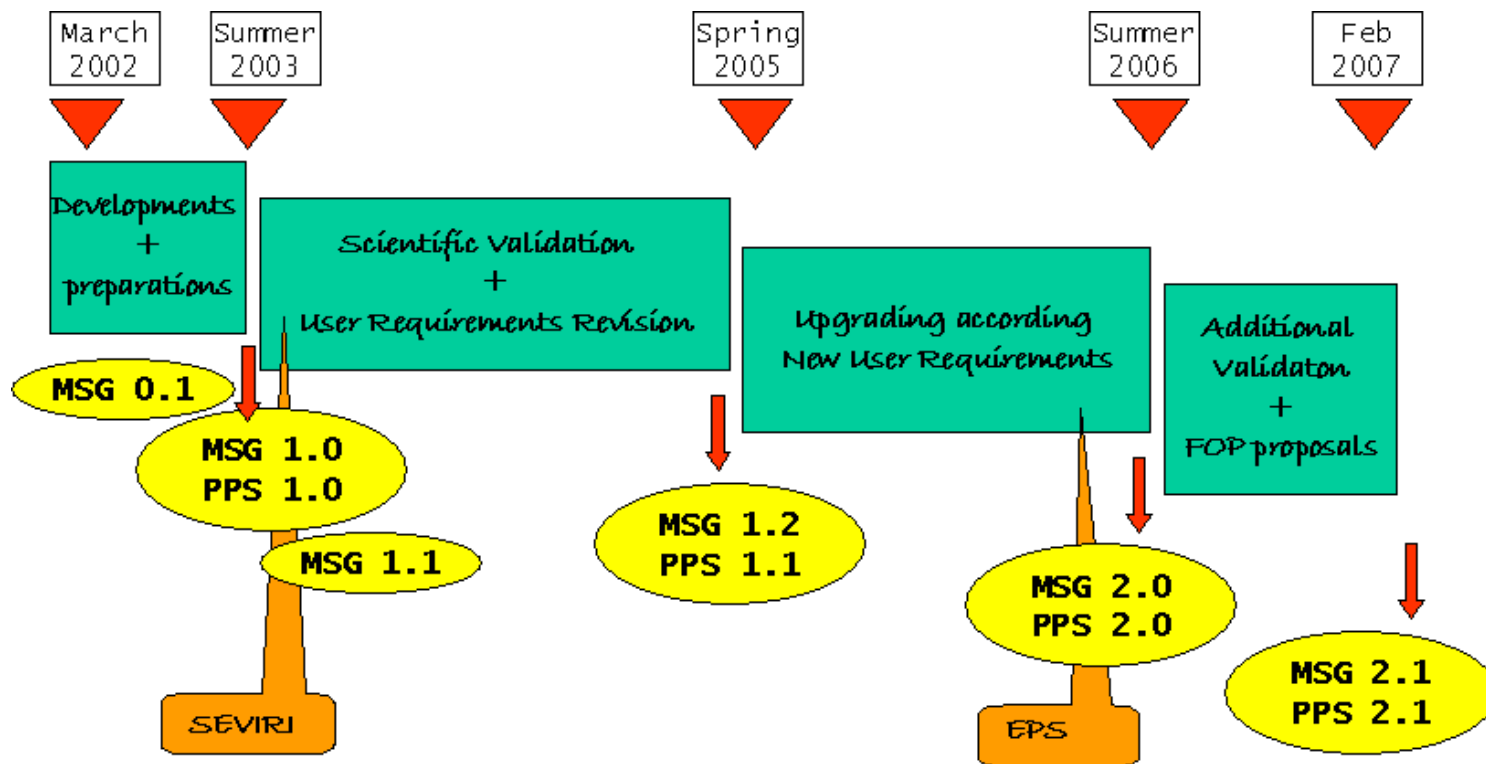


MSG and PPS Precipitation Products, PPS Clouds Products, PPS Software common elements, PPS elements integration in a single package.



MSG Air Mass Analysis and Conceptual Model products.

... Background ... IOP Sub-phases as planned at IOP-KOM



... Background ... **Real SEVIRI data impact on the NWC SAF schedule**

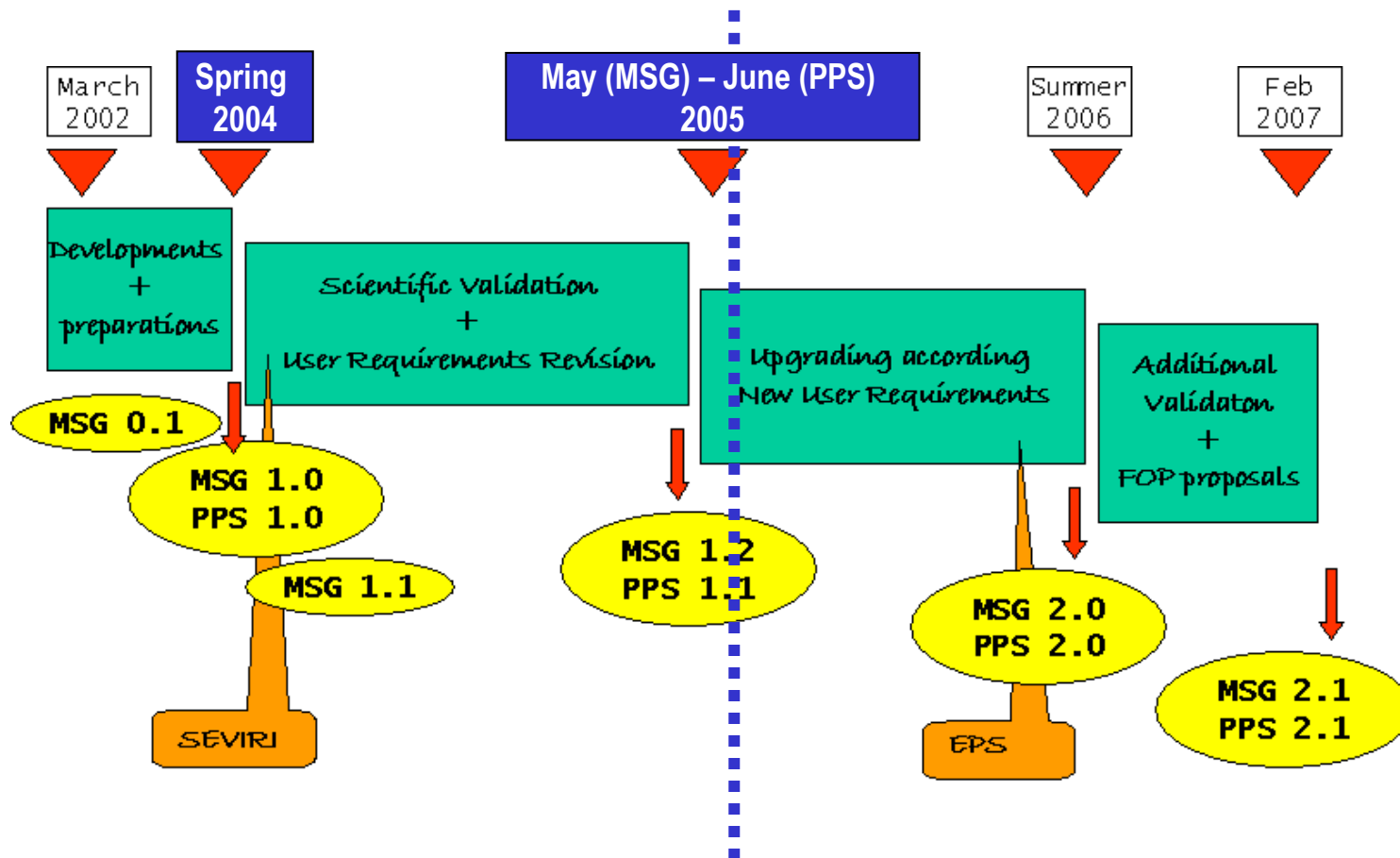
- **Planned MSG data availability at IOP Kick-off: April 2003**

- *Planned SAFNWC/MSG 1.0 delivery date: September 2003*

- **Stable, calibrated data: October 2003**

- *Final SAFNWC/MSG 1.0 delivery date: June 2004*

... Background ... updated IOP Sub-phases



... Background ... **MSG Beta versions**

SAFNWC/MSG v0.0:

- **First SW package to be tested for engineering purposes**
- **HRIT image like output format**
- **Supported on SUN**

SAFNWC/MSG v0.1:

- **Tested with real SEVIRI images in a pre-operational environment**
- **New output image like products format: HDF5**
- **Supported on SUN**
- **MSG Launch delay impact**

Very positive feedback from the Beta tester obtained (both releases)

... Background ... **PPS Beta versions**

SAFNWC/PPS v0.0 modules:

- End Development Phase,
- Not integrated into a single SW module

SAFNWC/PPS v0.X:

- Along 2002 – 2003 – 2004,
- Up to 6 deliveries,
- Upgraded according new developments and integration into a single SW Package

Very positive feedback from the Beta tester / Dedicated users obtained

... Background ... **First operational SAFNWC/MSG version delivery**

SAFNWC/MSG v1.0:

- **First operational SW package**
- **Output image like products format: HDF5**
- **Supported on SUN**
- **SW and documentation available through the helpdesk**
- **June 2004**

... Background ... **SAFNWC/PPS First Operational version**

SAFNWC/PPS v1.0:

- **First operational PPS SW package**
- **Output image like products format: HDF5**
- **Supported on Sun and Linux (RedHat on Intel)**
- **Tested with NOAA data locally received at SMHI (Norrköping) and at Bundeswehr Geoinformation Office (BGIO), Germany**
- **Compatible with AAPP 4.2**
- **SW and documentation available through the helpdesk**
- **June 2004**

... Background ... **SAFNWC/MSG further Operational versions**

SAFNWC/MSG v1.1:

- Portable on agreed platforms.

PORTABILITY STRATEGY

- Initial Committed Platforms: SUN, HP, DEC-Alpha, SGI
- Users requirement: Linux
- New strategy:
 - Primary Supported Platforms: SUN Unix / PC Linux
 - Secondary Supported Platforms: (SGI, ...).

SAFNWC/MSG v1.2:

- Product validation with real SEVIRI images
- Portable on committed Platforms
- Delivery 17th May 2005

...Background ... **SAFNWC/MSG planned versions**

SAFNWC/MSG v2.0:

- According updated Users Requirements

SAFNWC/MSG v2.1:

- Checked, preliminary Validation

...Background ... **SAFNWC/PPS further operational versions**

SAFNWC/PPS v1.1:

- **Product validation**
- **Delivered on 17th June 2005**

Planned:

SAFNWC/PPS v2.0:

- **According updated Users Requirements and Metop-1 data**

SAFNWC/PPS v2.1:

- **Validated**

... Background ... **Delivery schedule**

SAFNWC/MSG v.1.0

2004

SAFNWC/PPS v.1.0

SAFNWC/MSG v.1.1

2004

SAFNWC/MSG v.1.2

2005

SAFNWC/ PPS v.1.1

SAFNWC/MSG v.2.0

2006

SAFNWC/ PPS v.2.0

SAFNWC/MSG v.2.1

2007

SAFNWC/ PPS v.2.1

Conclusions (only for this speech, of course)

Interest for the NWC SAF (number of users), satisfactory

**NWC SAF adopted flexible approach to users requirements:
Linux and Visualisation tool (Output format)...**

**Importance of the PAR for the IOP NWC SAF life cycle >>
SAFNWC v.2.0**

**User feedback completion only after PAR User Survey
Analysis and PAR Workshop Conclusions >> updated URD
v.2.0**

Expectation on positive outputs from PAR

Wishes for a nice stay in Madrid



NWC SAF Product Assessment Review Workshop

THANK YOU!