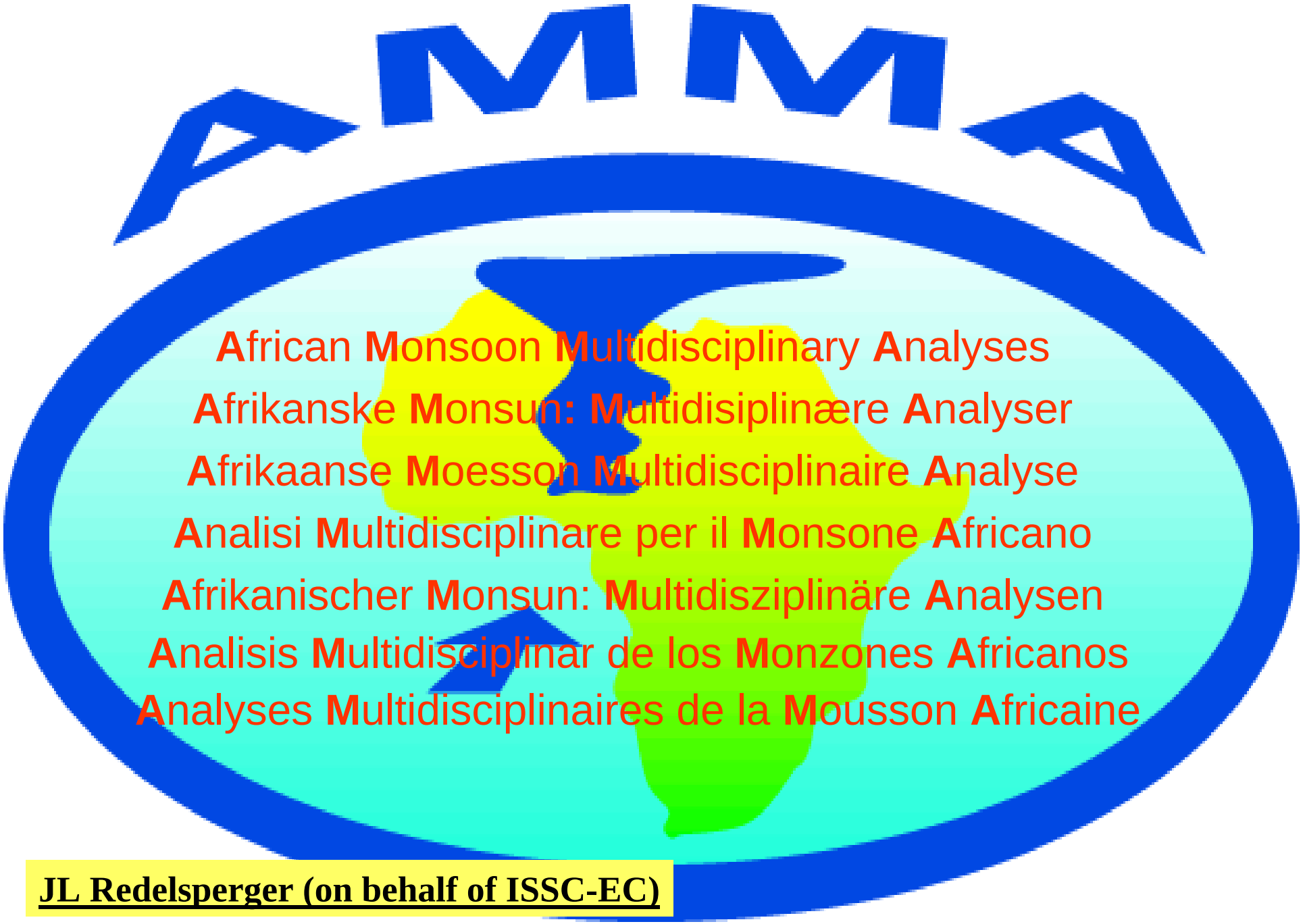
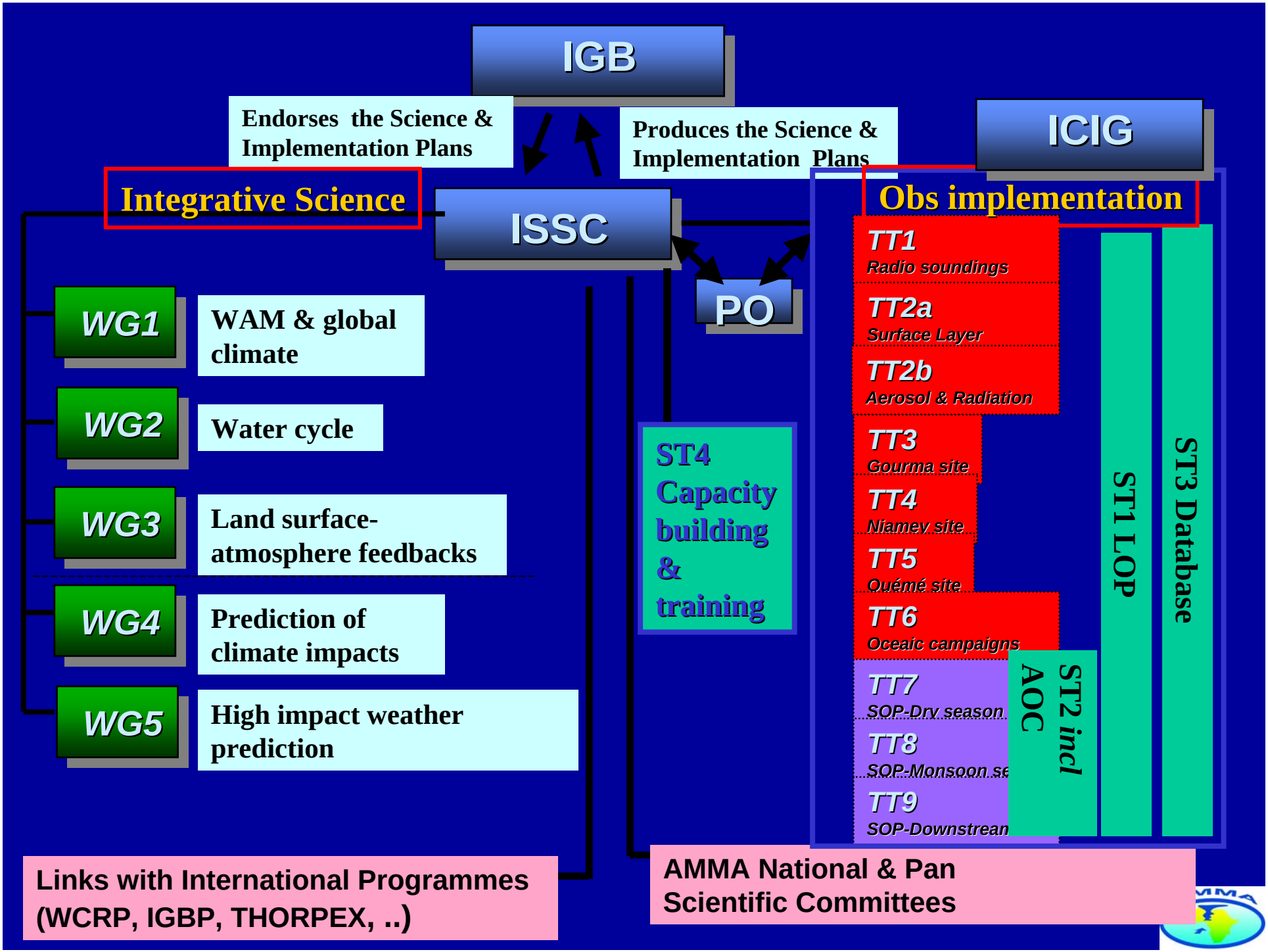


JL Redelsperger (on behalf of ISSC-EC)

- General information from ISSC
- Goals & Agenda of meeting

- ICIG (Th. Lebel & D. Parker)


IGB
Endorses the Science & Implementation Plans
Produces the Science & Implementation Plans
ICIG
Integrative Science
ISSC
Obs implementation
PO
WG1
WAM & global climate
WG2
Water cycle
WG3
Land surface-atmosphere feedbacks
WG4
Prediction of climate impacts
WG5
High impact weather prediction
ST4 Capacity building & training
TT1
Radio soundings
TT2a
Surface Layer
TT2b
Aerosol & Radiation
TT3
Gourma site
TT4
Niamey site
TT5
Ouémé site
TT6
Oceaic campaigns
TT7
SOP-Drv season
TT8
SOP-Monsoon se
TT9
SOP-Downstrean
ST2 incl AOC
ST1 LOP
ST3 Database
Links with International Programmes (WCRP, IGBP, THORPEX, ..)
AMMA National & Pan Scientific Committees

Five International Working Groups

- To coordinate and promote the key integrative science at international level

  Behind this and supporting this, other research activities exist in AMMA, e.g. process studies !

  Dakar conference mainly dedicated to these WGs (Science, Review, Organisation, …)

- 3rd ISSC meeting (Aug 2005, Paris): WG leadership adopted

  WG content discussed

WG1: West African Monsoon and Global Climate

Co-leaders:

Arona Diehdiou (IRD, Niger)
Serge Janicot (LOCEAN, France)
Peter Lamb (Univ. Oklahoma, US)

2-way interactions between West African Monsoon & the rest of the globe

to determine the variability of the WAM and its global impacts

=> to understand and to predict the multi-scale variability of the aspects of global climate linked to the WAM

ISSC recommendations

- To develop and promote clear linkages w/t operational seasonal-to-interannual prediction activities; e.g. including assessment of forecasts (statistical & dynamical; assessment of key processes in models etc).
- Core-membership should include representation from aerosol, chemistry and modelling
- WG should interact strongly with the IPCC process

WG2: Water Cycle

Co-leaders:

Amadou Gaye(LPASF, Univ. Dakar, Senegal)
Paul Houser (George Mason, US)
Jean-Luc Redelsperger (CNRM, France)

Analysis & Understanding of the water budget at *regional-scale*, *mesoscale* and *local scale*

Up/down scaling issues

ISSC recommendation:

Greater consideration should be given to shallow clouds in addition to MCSs; including cumulus congestus and upper-level outflows

➔ TT8 & "Group on Convection & Atmosp processes".

WG3: Land-surface-atmosphere feedbacks

Co-leaders: Jan Polcher (LMD, France)

Chris Taylor (CEH, UK)

To provide increased knowledge & understanding of the feedbacks between the continental surface & the atmosphere

➔ to bring together the various process studies (land and atmosphere) in order to better understand the coupling at *regional* and *mesoscale*.

ISSC recommendation:

Soon after the SOP, WG3 should agree a set of common case studies in common with WG2.

WG4: Prediction of climate impacts

Co-leaders:

Abou Amani (AGHRYMET, Niger)

Andy Morse (Univ. Liverpool, UK)

Madeleine Thompson (IRI, US)

"To provide the underpinning science that relates climate variability to issues of health, water resources, food security & demography for West African nations and defining relevant monitoring and prediction strategies." One of 3 aims in ISP

- WG4 should interact with all other WGs stressing the needs of the users & decision-makers & how each WG can contribute to this.
- A majority of proposals in the PIAF deal with climate impacts ➔ Important for WG4 that funding be sought to support these projects.
- WG4 is working to establish the 2-day workshop in Dakar ("closing the gap").

WG5: High impact weather prediction and predictability

CORE Membership:

Ernest Afiesimama (Nigerian Met. Service)
Sarah Jones (Univ. Karlsuhe, Ger.)
Dave Parsons (NCAR, US)
Florence Rabier (Meteo-France)
Chris Thorncroft (SUNY at Albany, US)
Zoltan Toth (NCEP, US)

To improve our knowledge & understanding of high impact weather in following regions. Key timescale of interest is 1-15 days.

(i) West African Continent: onset and duration of wet/dry spells including monsoon onset; risk of heavy rainfall/floods, aerosol?

(ii) Downstream Atlantic: tropical cyclogenesis and intensity change; role of large-scale (e.g. shear, SAL, dry air, large-scale convergence)

(iii) Extratropics: extratropical transition, Rossby wave trains

WG5: High impact weather prediction and predictability

Operational Activities

(i) Impact of additional observations and especially radio-soundings over West Africa in analysis/forecasting systems for (a) West Africa, (b) Atlantic & USA and (c) Europe

(ii) Targeted observations in tropical regions (SOP2 & SOP3)

(iii) Tailoring forecast products for users in tropical regions (1-14day)

ISSC recommendation:

Greater emphasis be given to the role of soil moisture on prediction and predictability at 1-15 day timescales, especially given the growing interest at NWP centers in soil moisture initialization.

Main other discussions going on

- To fund new large field key instruments as recommended by ICIG & ISSC
  - Top priority: Rain Radar in Niamey
  - Other Priorities:

    Geophysica (committed; Hangar, more flight hours)

    Soil moisture Airborne measurements (SMOS/HYDROS)

    Heat Low measurements

    Soundings North Quadrilater

- Database & data policy

- ST4 establishment and funding

Status for Niamey Rain Radar

•NSF proposal to support the S-Pol radar not successful (problems in financial and human resources)

•A strategy to deploy a C-band radar in Niamey is being developed with NASA, with some logistical support from DOE(ARM).

(NASA interest for the water cycle). Link with SMOS/HYDROS is important

We are optimistic that NASA will support deployment of the MIT C-band radar & expect to know for certain in the coming weeks.

The ISSC recommends that the deployment should be for 10-weeks, covering the July-to-Mid-September period.

Main AMMA Meetings

- **September 2005, Biarritz** Meeting on Process Scale Studies & review on Implementation
- **28 Nov- 2 Dec, Dakar** 1st International Scientific Conference
- **3-4 Dec, Dakar** Workshop of WG4 (Climate Impacts)
- **6-9 Dec, Thies** Training/workshop agronomy impact
  - **Jan-Feb 2006: Field operations SOP 0**
- **3-7 April 2006, UK** SOP Meeting : debrief SOP0 science
  debrief logistics issues for SOP-1-2-3
- ***Spring 2006, Niamey*** *Forecasting workshop for African forecasters (Funding not secured) 15 people and 1.5 week ???*
  - **April-Sept 2006: Field operations SOP-1-2-3 (aircrafts June-Sept)**
- **6-10 November 2006, Paris** Debrief SOP123 / coordination of analysis work