







World Climate Research Programme 34nd Session Joint Scientific Committee

Brasilia, Brasil, 27-31 May, 2013

Antonio J. Busalacchi
Chairman, Joint Scientific Committee, WCRP









- WCRP Mission and Objectives
- Introduction of New JSC Members
- Summary of JSC 33
- Implementation of Grand Challenges
- WMO Executive Council-65
- Interactions with Future Earth
- Interactions with Partners
- Approach to Membership
- Communication across WCRP
- Agenda
- Expectations for the week









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Mission & Objectives

- World Climate Research Programme supports climaterelated decision making and planning adaptation to climate change by coordinating research required to improve
- (1) climate predictions and
- (2) our understanding of human influence on climate

"for use in an increasing range of practical applications of direct relevance, benefit and value to society" (WCRP Strategic Framework 2005-2015).











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Future Directions: Actionable Science

Defined as: data, analysis, and forecasts that are sufficiently predictive, accepted and understandable to support decision-making, including capital investment decision-making.



World Climate Conference-3, OceanObs '09, ICSU Review and Visioning, acknowledge WCRP past contributions and identify future challenges and opportunities.



Need for more flexibility/agility to respond to expanding users needs, that includes information:

- At regional scale
- For key sectors of global economy
- For adaptation, mitigation and risk management







Future Directions: Useful Science

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Welcome New JSC Members!

- Stephen Belcher
 Met Office Hadley Centre, UK
- Guy P. Brasseur
 German Climate Service Center
- Anny Cazenave LEGOS, France
- In-Sik Kang
 Seoul National University, Rep. of Korea
- Rodney G. Martinez Guingla CIIFEN, Ecuador
- Mauricio M. Mata FURG, Brazil
- James Renwick
 Victoria University of Wellington, New Zealand
- Soroosh Sorooshian
 Uni. California, Irvine, USA











WCRP Organization

Joint Scientific Committee

Joint Planning Staff

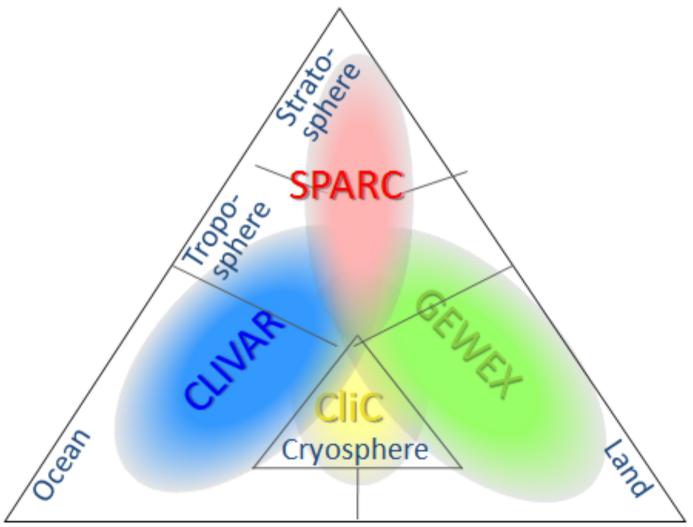
Modelling Advisory Council

Data Advisory Council

Working Groups on: Coupled Modelling (WGCM), Regional Climate (WGRC), Seasonal to Interannual Prediction (WGSIP), Numerical Experimentation (WGNE)

| | CliC | CLIVAR | | GEWEX | SPARC |
|--------------------|------|---------------|---|----------|--------------|
| | | | Regional Climate Information | | |
| | | | Sea-Level Rise and Regional Impacts | | Interactions |
| Interactions | | actions | Cryosphere in a Changing Climate | actions | |
| | | re Inter | Changes in Water Availability | re Inter | atosphere |
| Cryosphere-Climate | | cean-Atmosphe | Clouds, Circulation and Climate Sensitivity | mosphei | ere-Stra |
| ryosphe | | | Science Underpinning the Prediction and Attribution of Extreme Events | and –Atı | Troposph |
| O | | loop | | الع | F |























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Summary

WCRP JSC 33, Beijing, China July 17-20, 2012

- Future Directions of the WCRP
 - Rollout of Grand Challenges
 - WMAC
 - WDAC
- Core project buy in to final decision on future direction/naming
- Initiate WG on Regional Climate
- Regional African Climate and Latin America/Caribbean Conferences
- Refine our support of GFCS, sustained ocean obs, and FE
- Revise approach to SSG and WG nominations













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WCRP Grand Challenges

- A Grand Challenge is both highly specific and highly focused identifying a specific barrier preventing progress in a critical area of climate science.
- This focus enables the development of **targeted research efforts** with the likelihood of significant progress over 5-10 years, even if its ultimate success is uncertain.
- It should thus enable the implementation of effective and measurable performance metrics.
- By being transformative, a Grand Challenge should bring the **best minds** to the table (voluntarily), **building and strengthening communities of innovators that are collaborative**, perhaps also extending beyond "in-house expertise".
- It can capture the public's imagination: teams of world-leading scientists working to solve pressing challenges can offer compelling storylines to capture the interest of media and the public.











WCRP Grand Challenges

- **Regional Climate Information**
- **Regional Sea-Level Rise**
- **Cryosphere in a Changing Climate**
- Clouds, Circulation, and Climate Sensitivity
- **Changes in Water Availability**
- **Prediction and Attribution of Extreme Events**









Implementation of WCRP Grand Challenges

- Need to transition to implementation mode
- JSC does not want to be prescriptive with respect to approach
- One approach may not fit all, cf., Clouds/Circulation vis a vis Cryosphere
- Steering Group or/and Kickoff Workshop (s)
- Overall GC 5-10 years, sub initiatives order 5 years
- Essentials
 - Leadership/PoC (Chair, core project WG scientist, new SSG member)
 - Intra Project Assessment/Alignment wrt GC
 - Cross Project Coordination
 - Not meant to come at expense of existing core project activities
 - Well defined Implementation Plan, e.g., Clouds/Circulation









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WMO Executive Council-65

- The Council acknowledged with appreciation that the WCRP is organizing a series of regional projects, conferences, capacity development and training activities focussing on the role of science in climate services and risk management. It encouraged Members to participate in the WCRP/ACPC Conference on the African Climate System - Addressing Priority Research Gaps to Inform Adaptation Decision-Making in Africa that will take place from 15-18 October 2013 in Arusha, Tanzania.
- The Council was also pleased to note that the WCRP was organizing a Conference on Climate and Society for Latin America and the Caribbean scheduled for February 2014 in Montevideo, Uruguay.
- The Council recognized the key contribution of the WCRP to the Global Framework for Climate Services in addressing the needs for science-based climate information at global and regional levels.
- The Council endorsed the recommendations of the WMO/ICSU/IOC appointed Joint Scientific Committee (JSC) for the World Climate Research Programme at its most recent session in July 2012 in Beijing, China, that identified six "grand science challenges" resulting from the community based scientific papers and subsequent deliberations at the WCRP Open Science Conference (24-28 October 2011).











WMO Executive Council-65

- The Council recognized that these grand science challenges are intended to integrate scientific activities across the four WCRP core projects and the various WCRP Working Groups and Panels to deliver "actionable" climate information for decision makers in support of the GFCS and Future Earth.
- The Council welcomed the establishment of a new WCRP Working Group on Regional Climate Science and Information (WGRC) to provide strategic advice on regional aspects of climate science, relevant aspects of climate services and vulnerability, climate variability and change, and climate impact and adaptation applications. In particular WGRC would contribute to the four near-time priorities of the GFCS and serve as the WCRP interface with the GFCS User Interface Platform.









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Meeting of GEC Programme Chairs and Directors and Subsequent
Meeting with Members of the Future Earth Alliance and
Implementation Management Project Board
London, 14-15 January 2013

In summary, the GEC programme chairs and directors expressed that they are all, as ever, committed to FE.











General Comments

- Our main conclusion is that we hope to work with the Alliance to improve our confidence in the process of moving from the programmes we have now to full FE implementations. We would most welcome a well understood plan for FE implementation that follows the principle of 'do no harm'.
 - We are not at the moment confident of the process that is in place, and we are concerned that there is a serious risk about loss of continuity of both the science needed for FE, and the communities of scientists that supports it.
 - We know that top-down programmes for science do not work, especially for integration cross disciplines. We have among us great experience of organising networks for successful delivery of integrated, large-scale science. We consider the current plans have misplaced confidence in topdown planning, and that it is through open science and engaged networks of scientists that the integrated, transdicisplinary, solutions-oriented science will emerge.
 - The complexity of FE is such that we think it will be necessary to overlap the current programmes with the launch of FE. This overlap, and the complexity of FE, means that more resources will be required. We are concerned that sufficient resources are not in place and so this is a risk-prone process. Some funds are not transferable.











General Comments (cont'd)

- Our main conclusion is that we hope to work with the Alliance to improve our confidence in the process of moving from the programmes we have now to full FE implementations. We would most welcome a well understood plan for FE implementation that follows the principle of 'do no harm'.
 - This overlap of current and future structures, and the parallel running, will need careful codesign. We all need to be communicating a common message to our networks of scientists, funders and users.
 - There are critical bits of the science network, within and between existing projects that need special attention. Some of these relate to WCRP, which has a partial role in FE that we would like to clarify.







For the record:

Future Earth will build upon and integrate the existing Global Environmental Change (GEC) Programmes – the World Climate Research Programme (WCRP), the International Geosphere-Biosphere Programme (IGBP), the International Human Dimensions Programme (IHDP), DIVERSITAS – biodiversity science, and the Earth System Partnership (ESSP). It will also have to expand significantly beyond the existing global networks and engage new institutions and researchers. It must ensure research excellence by being open and inclusive, attracting the brightest minds from a broad range of disciplines and countries.

Moreover:

FE looks to WCRP to provide the research foundation for the physical climate system across observations, modelling and prediction, and interface to climate services, and the WCRP looks forward to supporting FE in this regard.









On the programme as a whole

- What FE can do better than 4 GECs
 - Attract new and reliable funds, a positive step change in funding for GEC science
 - Enable fully integrated, transdicsiplinary programmes of appropriate breadth
 - Be solutions oriented, working with users across the environmental change arena
 - Build relationships with the most significant communities of users and other stakeholders, including policy, decision, observation networks, and funders.
- What current FE plans miss that GECs do well
 - Research programme design and delivery.
 - Science gap identification
 - Networks of experts in all relevant areas, working collaboratively, existing strong brands and reputations in certain areas
 - Depth of science disciplinary excellence and relevance









On the programme as a whole (cont'd)

- What FE needs to address
 - Considering the balance of breadth and depth, for stakeholders
 - Develop a strong, respected brand. Not there at the moment.
 - Retain disciplinary strength (somehow) within the new structure attract young researchers,
 deliver best science.
 - Retain the ability to operate at a scale where science gaps can be effectively identified and filled.
 Is the FE SC at too high a level?

Note: IGBP has decided it will formally end in 2015.

WCRP needs to monitor joint activities in the years ahead as it pertains to IGAC, iLEAPS, AIMES, IMBER, PAGES, SOLAS, etc







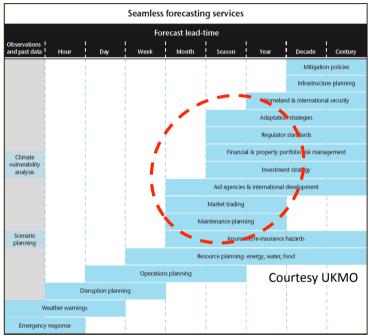




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Subseasonal to Seasonal (S2S) Project





□Objectives:

- To improve forecast skill and understanding on the S2S timescale with emphasis on HIW
- To promote uptake by operational centres and exploitation by the applications community
- To capitalize on the expertise of the weather and climate research communities to address GFCS priorities
- □ Implementation underway: TIGGE-like multi-model data base being established
- Demonstration projects on extreme events (e.g. 2010 Russian heatwave, floods in Pakistan in 2010 and Australia in 2011, and 2012 European cold spell)
- □ Project Office: NIMR, KMA, Jeju, Korea (official ceremony at EC-65)
- ☐ Trust fund: we expect and welcome support and contributions by Members.











WCRP Polar Climate Predictability Initiative (PCPI)

Research on Ice Sheets and Sea Level **WMO** Centuries **GIPPS Research Tasks** Decades -> (Global Assess perfor-**Understand how Understand Understand** polar iets and non-zonal past polar climate mance Integrated circulation couple climate predictability on of CMIP5 to the rest of the seasonal to models in variations, Years Polar climate system in decadal (palaeo, up to polar regions the Southern timescales **100** years) Months -> Hemisphere **Prediction** Assess re-analyses products in System) **Model error** polar regions **WWRP Polar Prediction Project (PPP)**











Polar Prediction Project (PPP)

The Science Plan and Implementation Plan will be available soon!

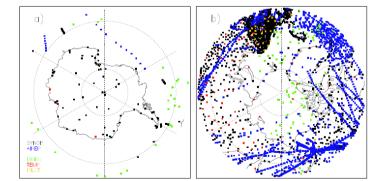


□Objective:

 "Promote cooperative international research enabling development of improved weather and environmental prediction services for the polar regions, on time scales from hourly to seasonal" (contribution to WMO GIPPS)

Research components:

- observations, modeling, data assimilation, ensemble forecasting
- predictability, diagnostics, teleconnections
- societal and economic research applications, verification



Courtesy T. Jung, AWI

- □Implementation: Year of Polar Prediction (YOPP) period 2017-2018
- □ Synergies with the WCRP Polar Climate Predictability Initiative (PCPI)
- □ Project Office: under discussion
- ■Trust fund: contributions welcome











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WG and SSG Membership

- The JSC has created a 'membership committee' within the JSC.
- This is comprised of the Officers and chaired by the JSC Vice-Chair.
- Their task is to work with each working group and steering group (on a suitable annual schedule) to fill a slate of candidates, one for each vacant position, but with serious attention to the issues we need addressed (gender, regional balance, etc.).
- This might take several iterations over the course of the year.
- This committee is charged with exerting the JSC influence on the process and with ensuring that the process starts early and is completed in a timely manner.
- Then at the JSC meeting a well-considered slate of candidates will be presented, along with their bios and other pertinent information, and we could approve this, confident that it will be the best slate achievable and that it has our intentions well-considered.











GEWEX Scientific Steering Group (Rationale)

| NAME (Gender) | YEAR OF BIRTH | CAPACITY | AFFILIATION, COUNTRY | SPECIALTY/ EXPERTISE | MEMBER SINCE | EXPIRY OF APPOINTMENT (end of year) | MEMBERSHIP RECOMMENDATION (subject to review by JSC |
|------------------|---------------------|------------|--|---|-----------------|---|---|
| K. Trenberth (M) | 1944 | Chair | NCAR, USA | Global energy and water cycle, climate variability and climate change | 2008 | 2014 | Stepping down as Chair at end of 2013 |
| H. Wheater (M) | 1949 | Vice-Chair | University of Saskatchewan, Canada | Hydrological processes; hydrological and precipitation modeling; flood risk, water resources and water quality management; arid zone hydrology | 2009 | 2014 | Stepping down as Vice-Chair at end of 2013 |
| R. Anyah (M) | | Member | University of Connecticut, USA | Regional climate dynamics and modeling, regional climate-hydrology-land use connections (over the Nile River Basin and Horn of Africa), large inland lakes and regional climate processes, regional climate change impacts and adaptation mechanisms for the water and agricultural sectors | 2013 | 2015 | |
| P. Bauer (M) | 1963 | Member | ECMWF, UK | Satellite data assimilation in NWP models, moist atmospheric processes, radiative transfer modeling | 2011 | 2013 | Proposed extension for 2 years |
| E. Blyth (F) | 1964 | Member | Centre for Ecology and Hydrology, UK | Land surface modeling, using data for benchmarking land-surface model performance, linking hydrological and meteorological models, land-atmosphere interactions and arctic land surface processes | 2011 | 2013 | Proposed extension for 2 years |









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Communication across the WCRP

WCRP Accomplishment Report

Communication post-JSC

Engagement of Early Career Scientists

Project Outreach





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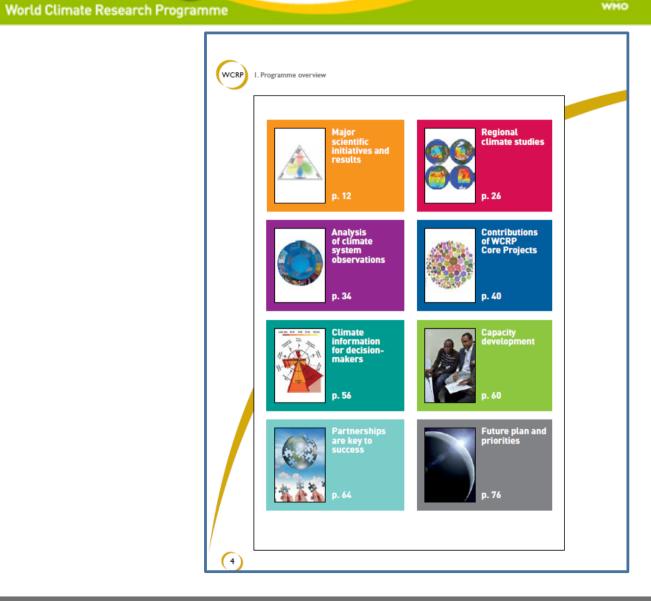






















HOW TO GET INVOLVED

The great success of WCRP is directly related to benefit to all parties involved is the strengthening and effective participation with organizations redundant efforts. around the world. The following are the primary

it possible for scientists from developing countries implementation of the WCRP Strategic Framework. capacity-building efforts that would normally be Interested participants: keep up-to-date with

scientific expertise and securing financial the WCRP Website. intergovernmental organizations, foundations, associations and development banks.

National academies, agencies, and climate 7 bis, avenue de la Paix committees: WCRP benefits greatly from the active involvement of national agencies and CH-1211 Geneva 2, Switzerland

Scientists: WCRP invites and encourages individual scientists to make the WCRP global Sponsors: sponsors support WCRP financially or sponsor scientists, our Core Projects and to suggest ways to integrate national, regional integrative research activities. Many WCRP and international initiatives. The WCRP Joint the contributions from a variety of sources. For cutting activities welcome proposals for new example, relatively small contributions can make collaborative activities that support

WCRP activities by subscribing to the Programme's quarterly newsletter (e-zine) and submit news on Partners: partners contribute to WCRP initiatives recent research findings, publications, upcoming















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World Climate Research Programme

Climate Research in Service to Society

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Sunday, 26 May

14h00 – 17h00 JSC Officers meeting

Monday, 27 May

Opening Session of WCRP Joint Scientific Committee 34th Session (JSC-34)

09h00 - 09h30 Welcome Remarks - MCT Host - C. Nobre

09h30 - 10h00 Report on WCRP developments, time line for new implementation - A. Busalacchi

Dialogue with Sponsors and Stakeholders

Sponsor Updates - Present Status, Evolving Role of WCRP and charges to WCRP JSC-34 (30 min presentation + 10 min discussion)

| 10h00 – 10h40 | WMO Global Framework for Climate Services – J. Lengoasa (via VC) |
|---------------|--|
| | |

10h40 – 11h20 ICSU Future Earth – S. Wilson (via VC)

11h20 – 11h40 Coffee Break

11h40 – 12h20 IOC Integrated Framework for Sustained Ocean Observations – Capt. (Ret)

Frederico A. SARAIVA NOGUEIRA

12h20 – 13h00 Report on JPS developments, program, personnel, budget - G. Asrar









14h00 - 15h00 Agency Updates- e.g., NOAA/R. Rosen, EUMETSAT/J. Schulz, ECMWF/A.

Simmons, CEOS, ESA, etc.

<u>Presentation of WCRP Grand Challenges</u> (progress to date, impediments, implementation schedules, cross project interdependencies and coordination)

Regional Climate Information (each session 30 min presentation) 15h00 – 17h30

| 15h00 – 16h00 | Long-term regional climate information (WGRC lead, inclusive WGRC report and |
|----------------------|--|
| | CORDEX update) - C. Goodess/B. Hewitson (G. Asrar/F. Giorgi reporting) |

16h30 – 17h00 Update on Regional Workshops

Africa Climate Conference – P. Yanda and F. Semazzi)

Latin America Workshop – C. Saulo (via VC)

17h00 – 17h30 Regional Partner Updates (APN/L. Stevenson, IAI, MAIRS, START/H. Virji (Via

VC))

17h30 – 18h00 Summary of day's discussion

18h00 Ice Breaker









Tuesday, 28 May

WCRP Grand Challenges (cont'd)

Regional Climate (cont'd)

| 08h30 - 09h30 | Intraseasonal to seasonal to interannual prediction (CLIVAR lead) + Decadal prediction (CLIVAR lead/L. Goddard) |
|---------------|---|
| 09h30 - 10h30 | Cloud, circulation and Climate Sensitivity (WGCM; 45 minute presentation with 15 min discussion) – S. Bony (via VC) |
| 10h30 - 11h00 | Coffee Break |
| 11h00 - 12h00 | Cryosphere in a Changing Climate (CliC/SPARC; 45 minute presentation with 15 min discussion) |
| 12h00 – 13h00 | Science Underpinning the Prediction and Attribution of Extreme Events (GEWEX LEAD; 45 minute presentation with 15 min discussion) |
| 13h00 – 14h00 | Lunch |
| 14h00 – 15h00 | Changes in Water Availability (GEWEX lead; 45 minute presentation with 15 min discussion) |
| 15h00 - 16h00 | Regional Sea-Level Rise (CLIVAR lead/M. Visbeck; 45 minute presentation with 15 min discussion) |
| 16h00 - 16h30 | Coffee Break |
| 16h30 - 17h00 | Discussion of Grand Challenges and Next Steps |
| 17h00 – 17h30 | WMAC Meeting Summary (20 minute presentation with 10 min discussion) – Co-Chairs |
| 17h30 - 18h00 | WDAC Meeting Summary (20 minute presentation with 15 min discussion) – O. Brown |
| | |









Wednesday, 29 May

WCRP Core Projects: Progress and Plans

(Project response to JSC 33 and actions as a result, implementation plans/timeline for new directions, internal structural changes, and cross project interdependencies) (60 min presentation, 30 min discussion)

08h30 - 10h00 CLIVAR

10h00 - 10h30 Coffee Break

10h30 - 12h00 CliC

12h00 - 13h00 Lunch (JSC Executive Session)

Project Reports - (continued)

| 13h00 – 14h30 | GEWEX |
|---------------|-------|
|---------------|-------|

14h30 - 16h00 SPARC

16h00 - 16h30 Coffee Break

16h30 - 17h30 Science Presentations by host nation

Dr Paulo Nobre, INPE/CPTEC - "The South Atlantic Convergence Zone and the

paradigm of SST-driven climate variations."

Prof. Edmo Campos, USP - "Strengthening of the Agulhas Leakage and weakening of the Atlantic Meridional Overturning Circulation. Fact or model

artifact?"

20h00 Optional visit to Clube do Choro









Thursday, 30 May

14h30 - 15h00

15h00 - 15h30

15h30 - 17h30

Modelling WG Reports

| 08h30 - 09h00 | WGCM |
|---------------|-------|
| 09h00 - 09h30 | WGSIP |
| 09h30 - 10h00 | WGNE |

WCRP Partnerships and Joint Initiatives

Coffee Break

| 10h00 - 10h30 | WCRP perspective on subseasonal to seasonal prediction project – WGSIP Co-Chair |
|---------------|--|
| 10h30 - 11h00 | Coffee Break |
| 11h00 – 11h30 | Status of WCRP Polar Climate Prediction initiative – (SPARC/CliC) |
| 11h30 – 13h00 | Partner Presentations (20 min presentation + 10 min discussion) GCOS – A. Simmons IGBP – J. Marengo WWRP (+ report on joint subseasonal to seasonal prediction project and polar prediction) – G. Brunet Other (eg IRDR, SOLAS, CCI, etc.) |
| 13h00 – 14h00 | Lunch |
| 14h00 – 14h30 | IPCC: What next? – K. Trenberth |

Summary of JSC-34 and Closing Comments - A. Busalacchi

Executive Session with WCRP Chairs and Directors









Friday, 31 May

JSC Executive Session

09h00 - 12h00 JSC Executive Session

Implementation Issues with respect to Grand Challenges

Engagement with Future Earth (FE)

Membership Action Items Other items











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Expectations for the Week

- Continued progress on implementing the Grand Challenges
- In this regard the designated GC leads are asked to address progress to date, impediments, implementation schedules, cross project interdependencies and coordination.
- All JSC 34 presenters should specifically address issues raised at JSC 33 and actions items as documented in the JSC 33 report.
- Enhanced communication across the WCRP
- Assess progress of WMAC and WDAC
- Continued engagement with partners, especially other GECS and FE during the transition period
- Refine new approach to membership
- Agree on date of JSC 35, joint with CCI XVI, Heidelberg on or about June 30-July 4, 2014









With sincere thanks to: "Os Tres Amigos"































2/20/13 Guidance to Chairs and Directors

WRT to the Grand Challenge presentations, I ask the
designated leads, as stated, to address progress to date,
impediments, implementation schedules, cross project
interdependencies and coordination. In addition, I ask that
the presenters should specifically address issues raised at JSC
33 and as documented in the JSC 33 report (the same holds as
always for the individual project reports as appropriate).
 When a lead is designated for the GC presentation it should
be interpreted that this is to include and engage the other
relevant projects for this particular GC.