

JSC 36 ACTION ITEMS – For JSC, Grand Challenges, Core Projects, Working Groups

No.	Agenda item	ACTION	By	Deadline	Progress
1	1.3 Communicati on & Outreach	Develop collectively and implement an effective communication strategy. (Work with sub-group in JSC-36 sign-up sheet.)	JSC, JPS , D/WCRP	June 2015 & continuing	Ongoing. Note recent hire of Communications Officer, new Newsletter, updates of website and increase in social media. In process of enhancing collaborative arrangement with WMO Public Relations.
2	2.1 WMO	Consider and refine WCRP relationships with national and regional climate service providers and GFCS	D/WCRP , JSC chair	ASAP & continuous	Ongoing. Conceptually, WCRP's direct link with theGFCS could be strengthened through refinementand redefinition of the so-called research pillar of GFCS but also through cooperation on the nascent Climate Services Information System of GFCS. WCRP and WWRP staff and leadership submitted a substantial written modification to the GFCS implementation plan. WCRP, WWRP, GCOS and WMO WIGOS work on a collective modification to the more recent GFCS operations and resource plan (ORP). WCRP and WWRP leadership will meet soon to discuss optimal tactics and mechanisms for renewed progress.
3	2.2 IOC	Coordinate with IOC on sequencing future conferences and workshops, in particular, sea-level related activities	D/WCRP - ES/IOC - CLIVAR - GC Sea level	ASAP	Done. 2017 Sea Level workshop is being organised jointly with IOC, to be held in New York in July 2017. D. Stammer to provide update.
4	2.3 ICSU	Develop, monitor and evaluate strategy for WCRP interactions with Future Earth and with legacy projects of IGBP <ul style="list-style-type: none"> • Work with IGBP on planning for 	D/WCRP , JSC chair with ED/FE	ASAP	Promoted the IGBP Synthesis event at AGU Exchanging regular communications via secretariats on FE and WCRP meetings and on cooperation a third party events, e.g. Belmont

		<p>Synthesis Event, AGU Fall Meeting 2015</p> <ul style="list-style-type: none"> • Ensure mutual invitation of chairs and/or directors to WCRP JSC and Future Earth SSC meetings 			<p>Forum.</p> <p>Initial and possible growing cooperation on an oceans initiative.</p> <p>D/WCRP and/or JSC Chair attend relevant events as appropriate.</p>
5	2.4 IGBP	Coordinate joint WCRP - IGBP contribution to SBSTA in 2015	D/WCRP	ASAP	WCRP together with IGBP prepared a shared presentation for SBSTA 43 in June 2015. IPCC then changed processes and schedules so that the shared presentation proved no longer welcome or relevant. WCRP continues to cooperate closely with UNFCCC for contributions to SBSTA 44 in 2016.
6	3 Grand Challenges	<ul style="list-style-type: none"> • Agree & document the common goals, overarching questions, milestones and evaluation criteria across all GCs • Establish a group to consider options for developing the Decadal information & prediction effort as a WCRP GC • Build connections internally and with partners to consider options for developing a biogeochemistry & aerosols WCRP GC 	JSC chair, D/WCRP, GC leaders D/WCRP with JSC chair	ASAP	<p>Ongoing:</p> <ul style="list-style-type: none"> • Common template for Concept Notes produced. • Decadal GC Concept Note submitted • Biogeochemistry Note submitted • Discussion on evaluation criteria will be covered in the WCRP forward/vision document
7	3.1 Sea Level	GC Sea level to ensure connection to LOICZ	GC-Sea Level leaders	ASAP	Done & continuous (monitoring the status of LOICZ)
8	3.2 Water	Ensure linkages between GC on water availability and the Global Water System Activities (GWSA)	GC-Water leaders, IGBP	ASAP and continuous	GC-Water is being re-scoped to address water availability for the Food Baskets in the World; Discussion with GWSA under way, including its foreseen follow-up activity (Sustainable Water Future program). Planning to discuss the inclusion of the human dimension with the GC (firstly at the US RHP component), followed by the GEWEX workshop on human dimension (Paris, 3rd quarter of 2016)

9	3.4 Regional Climate Information	<p>Refine, clarify and strengthen regionally focused activities across WCRP</p> <ul style="list-style-type: none"> Discontinue the regional Grand Challenge. Encourage and endorse the initiation of frontier projects (with city/regional focus) as a mechanism to advance distillation concepts. Formulate a revised draft for WGRC ToR and send it to the WGRC. Refine WGRC membership taking into account connections with CORDEX and scientific expertise required, to carry out frontier projects. Present the revised membership to JSC for their endorsement 	<p>JSC</p> <p>JSC, WGRC</p> <p>JSC</p> <p>WGRC</p>	ASAP	<p>Done</p> <p>WGRC updated Frontier Project concept to Frontiers of Climate Information (FOCI) (Nov'15)</p> <p>JSC chair proposes new regional framework (WRAC – see relevant JSC-37 document)</p>
10	3.5 Extremes	GC Extremes to consider exploiting WGSIP/CHFP and Decadal database to address predictability of extreme events in seasonal ~ interannual scales	GC-Extremes / WGSIP co-chairs	ASAP & continuous	<p>Ongoing</p> <ul style="list-style-type: none"> GC-Extremes/WGSIP interaction (Modelling workshop in Oslo, 2015), agreed on the primary focus on seasonal forecasting, then on decadal predictions to follow in coming years Agreed that the extremes GC provide input to CHFP database
11	3.6 Clouds	GC Clouds to nurture links to GC Extremes, WGNE coordination of AMIP in cooperation with T-NAWDEX, and involvement at CLIVAR OSC	GC-Clouds leaders, WGNE, CLIVAR	ASAP	<p>On-going</p> <p>Some GC Clouds-Extremes exchanges took place</p> <p>Planned AMIP discussions at WGNE31</p>
12	4 Core Projects	<p>Review and adjust plans for future WCRP conferences, including possible:</p> <ul style="list-style-type: none"> GEWEX Open Science Conference, 	JPS, CP-IPOs	Before JSC-37	<p>Ongoing (to be discussed at JSC-37):</p> <ul style="list-style-type: none"> GEWEX OSC proposed for 2018 with the main

		<p>2016</p> <ul style="list-style-type: none"> • CLIC Conference(s) • GC-Extreme Open Science Conference on Extremes, 2018 • WCRP Open Science Conference 2018 – 2020 <p>(Confirm WCRP 40th anniversary: 2020)</p>			<p>themes comprising GCs (particularly water availability in food basket regions and climate extremes)</p> <ul style="list-style-type: none"> • Note other 2018 events: SPARC GA (see action #13) and other proposals. • WCRP OSC may be considered for 2020, for WCRP 40th anniversary, possibly as a joint WCRP-WWRP initiative • CliC investigating joint activities in association with SCAR/IASC Polar 2018 meeting in June 2018. <p>NOTE from JPS: Need to maintain a planning calendar to avoid overlaps; JSC to discuss funding guidelines for conferences</p>
13	4 Core Projects	<p>Endorse:</p> <ul style="list-style-type: none"> • CLIVAR Open Science Conference, Sep 2016 • CORDEX 2016 Conference, May 2016 • SPARC General Assembly, 2018 	JSC	ASAP	<ul style="list-style-type: none"> • CLIVAR OSC: progressing well. Almost 1000 abstracts submitted to CLIVAR. • ICRC-CORDEX 2016: finalizing the organization (see icrc-cordex2016.org). • SPARC GA: host agreement progressing.
14	4.5 SPARC	Promote training on atmospheric dynamics within WCRP, e.g. summer schools	SPARC IPO , JPS	ASAP	Done & continuous
15	4.6 WWRP	<p>Encourage synergetic collaboration between WWRP and WCRP, and develop joint activity plans (e.g. HIW and GC-Extremes, urban)</p> <ul style="list-style-type: none"> • Explore feasibility to organize a joint WCRP/JSC-WWRP/SSC meeting for 2017 • Ensure WWRP involvement in storm tracks workshop (August 2015, Switzerland) 	<p>D/WCRP C/WWRD D/ARE</p> <p>D/WCRP</p>	ASAP	<p>Done & continuous:</p> <ul style="list-style-type: none"> • Proposed a joint WCRP/JSC – WWRP/SSC meeting in early 2018 • Joint activities already ongoing under e.g. polar, urban, seasonal, integrated greenhouse gas monitoring, etc.

16	5.2 WGSIP	<ul style="list-style-type: none"> Resolve whether all decadal products would need to produce a DECK runs to contribute to CMIP6 (see also recommendation from WMAC) Encourage regional climate modelers to use CHFP 	WMAC	ASAP	<p>Done</p> <ul style="list-style-type: none"> DECK runs issue was discussed and cleared at last WGCM19 session Use of CHFP was promoted within CORDEX and other groups
17	5.6 PAGES	Following the signed scientific collaboration agreement, develop and implement scientific partnerships with PAGES	D/WCRP, D/PAGES	ASAP	<ul style="list-style-type: none"> D/WCRP attends PAGES SSC and science symposia WCRP signed additional agreements with SOLAS and iLEAPS Agreement with Global Carbon Project pending Added partner project agenda item for JSC 37
18	6.1 Urban breakout session	<p>Develop options for an urban focus within WCRP</p> <ul style="list-style-type: none"> Extract and summarize information from other urban-focused events, to review status and requirements for climate information Organize a half-day session on emerging science for urban climate, in a WCRP context 	JPS, WGRC, with WWRP/ GAW	Ongoing (see JSC-37 doc on urban climate)	<ul style="list-style-type: none"> WCRP collaborates with WWRP and GAW in providing input to UNHABITAT III, through WMO. WCRP is identified as a main contributor to urban weather and climate services, in the WMO Resolution Cg-17: Establishing WMO Cross-Cutting Urban Focus. Background document for JSC 37 outlines WCRP's cross-curring and joint effort with partners for urban focus.
	6.2 Data Initiative	(SEE SECTION 7.4 WDAC REPORT BELOW).			
19	6.3 Funding Breakout Session	<p>Implement an overall funding plan</p> <ul style="list-style-type: none"> Share current list of funding support countries. Ensure that project co-chairs and IPO directors get copies on all funding solicitation letters submitted to their 	D/WCRP with JSC, and funding sub-committee	ASAP & continuous	<ul style="list-style-type: none"> Developed a much-needed comprehensive overview of WCRP funding and expenses Copied 2016 funding request letters to national contacts Expanding the list of countries for WCRP funding requests

		<p>host and home countries.</p> <ul style="list-style-type: none"> • Develop overall budget picture of WCRP with future targets. • Solicit information from countries about WCRP involvement in their country? 			<ul style="list-style-type: none"> • WMO pressing for greater resource generation
20	6.4 Capacity Development Breakout session	<p>Complete and make available to community a WCRP-wide Capacity Development Strategy (considering future periodic revision)</p> <ul style="list-style-type: none"> • Assemble information on “what has been done”- success & failure cases of Capacity Development activities, and mapping of purposes, beneficiaries, resources (human and budgetary) • Establish a group of JSC members to advise on and lead CD across the WCRP. (Work with sub-group in JSC-36 sign-up sheet .) • Consider using JSC members to oversee and help implement the summer school/training programme and legacy/reusable training material • Organize an international Early Career Researchers Workshop on weather and climate, jointly with WWRP and other partners. • Include CD as an agenda item at JSC-37, to review status of proposed actions 	<p>IPOs, JPS</p> <p>JSC with CP representatives</p> <p>JSC with CP representatives</p> <p>JPS with IPOs and ECR networks</p> <p>D/WCRP</p>	<p>ASAP & before JSC-37</p> <p>Done & until JSC-37</p> <p>Until JSC-37</p> <p>2015</p> <p>JSC-37</p>	<p>Ongoing with re-direction (to be discussed at JSC37):</p> <ul style="list-style-type: none"> • WCRP-wide CD principles proposed (see relevant JSC-37 background doc), as a holistic & replacing effort to the overall documentation • ECR workshop organized through a joint WCRP-WWRP-GAW sponsorship (http://public.wmo.int/en/resources/bulletin/young-earth-system-scientists-yess-community) • CD issues to be discussed at JSC-JPS sessions during JSC-37
21	6.5 Decadal Breakout Session	<p>WCRP to engage with relevant WMO commissions to formalize Decadal Forecast Exchanges as contribution to GFCS (ALSO FROM SECTION 5.2)</p>	<p>JPS, WGSIP</p>	<p>ASAP</p>	<p>Done, on-going dialogue in place with CBS and CCI</p> <p>Note relevance of aims of proposed Decadal GC (production of pilot real-time Global Decadal Climate Outlook)</p>

	6.6 Climate Information Breakout Session	(SEE REGIONAL SECTION 3.4 ABOVE)			
22	7.2 WMAC	Form a small team to engage with ESGF to see what can and cannot be done and to begin developing a plan accordingly	WMAC , with WDAC?	ASAP	<ul style="list-style-type: none"> • ESGF has become a more useful data dissemination platform for CMIP, CORDEX, obs4MIPs, ana4MIPs, etc. • Security of the infrastructure has been enhanced following potential threats identified last summer which forced ESGF to be down for several months until recently. ESGF is again operational. • A new web layer greatly improves the management of projects, interlinkages and data access. • Relaxation of formatting constraints being explored in several directions (in-situ, sparse, regional, swath EO, etc) • WCRP-led demonstration project explored the challenges for incorporating in situ data
23	7.3 WDAC	<p>Make data issues more prominent within WCRP</p> <ul style="list-style-type: none"> • Develop ideas and plans for a data prize • Work with GCOS to expand ECVs in useful directions • Establish a WCRP-wide open data policy • Refine and clarify the earth system reanalysis concept 	WDAC , with JPS and GCOS	Done	<ul style="list-style-type: none"> • Data Prize concept almost final • Dialogue with GCOS on possible new flux ECVs for consideration in GCOS IP • Open data policy almost final • Earth System Reanalysis will be a strong focus at the Reanalysis Conference (postponed to 2017)

24	7.4 Future Meetings	<ul style="list-style-type: none"> Add carbon impact concerns into planning for future JSC, project, grand challenge and working group meetings. Confirm dates and location for JSC-37 	JPS	continuous	<p>Session on reducing carbon footprints of climate research held at CMIP workshop</p> <p>This meeting (JSC 37) again in Geneva partly for carbon impact reasons</p> <p>D/WCRP travels extensively by train within Europe, expending 121 kg C in 2015 rather than 812 kg C for same trips by air.</p> <p>Reduction in number of JSC members for carbon and cost reasons.</p> <p>JSC 38: April 3, 4 and 5 2017, Paris</p>
25	7.5 Integration	Starting from Joint Statement between WCRP and CCI (2014), work with President CCI to develop and implement mutual initiatives.	D/WCRP	ASAP & before JSC-37	Consulted on membership to various activities and working groups of mutual interest.

JSC 36 RECOMMENDATIONS relevant to JSC meetings, IPOs, JPS

No.	Recommendations	Deadline	Status / Follow-up
JSC meetings and activities			
1	<ul style="list-style-type: none"> Consider a longer meeting to allow more time for JSC discussion 	JSC-37	Kept the 3-day session format due to resource constraint.
2	<ul style="list-style-type: none"> Organize a pre-meeting session on main issues, with particular attention to new JSC members 	Before JSC-37	A web conference in July 2015 Sunday 24th: pre-meeting session
3	<ul style="list-style-type: none"> JSC could receive a 1-2 page "Summary of achievements & future plans" each of WG and CP together with the agenda 	Before JSC-37	To be included in the WCRP-wide drafting before the Sponsors' review.

4	<ul style="list-style-type: none"> JSC members should receive adequate briefing in advance about issues to be discussed and decided 	periodic	Under way through pre-session documents (urban, regional, etc.)
5	<ul style="list-style-type: none"> JSC should meet together at the end of each day during the annual meeting, to exchange impressions, summarize and synthesize main comments & recommendations 	JSC-37	Restructured the JSC 37 to allow these discussions.
6	<ul style="list-style-type: none"> Breakout sessions provide a useful mechanism for interaction but should involve preparation of a brief paper ahead of time, perhaps with focussed questions to answer. 	JSC-37	A few focused discussion sessions by JSC included in JSC-37
7	<ul style="list-style-type: none"> (From WMAC) Individual modelling WGs to report to the JSC directly with targeted reports (including model development issues) allowing time for discussion with JSC in plenary 	Not possible given JSC37 meeting format	JSC should address larger issue of direct reports from working level or through advisory councils.
8	<ul style="list-style-type: none"> JSC could assess at regular intervals (eg, every 4 years?) the main accomplishments of one or several GCs and CPs 	Periodic	Underway
9	<ul style="list-style-type: none"> WCRP to organize a round-table on Capacity Development, engaging partners and potential donors WCRP to establish a “WCRP mentorship framework”, working with a network of training institutions 	ASAP & continuous	Awaiting overall agreement on and collaboration on Capacity Development plans.
International Project Offices			
10	<ul style="list-style-type: none"> WCRP Staff and JSC to coordinate fundraising activities with the core projects, particularly in the countries where they are hosted. 	Continuous	Ongoing (e.g. GEWEX, CLIVAR, CORDEX) and for further enhancement Implemented for country-specific funding solicitation letters Core projects to keep JPS informed of their fund raising initiatives.
11	<ul style="list-style-type: none"> Help from JPS in identifying calls and preparing proposals for/with the Project Offices would be welcome. 	Continuous	
12	<ul style="list-style-type: none"> WCRP, CliC and CORDEX all use the same website content management system and template, but still could use some technical support for backing 	To review status before JSC-37	Content on the current WCRP website, as well as all core-project websites, has and will

	things up, security updates, etc.		continue to be updated. WCRP will consider migrating its web site to the new WMO managed system once ready, to utilize WMO IT support and working tools for public web and extranet. Prior to this a communications strategy, including web strategy, will be produced to assess WCRP and community requirements.
13	<ul style="list-style-type: none"> WCRP should consider writing a proposal to find a sponsor for the WCRP central and project website revision and maintenance. 	ASAP & continuous	
14	<ul style="list-style-type: none"> Add a day after the main JSC meeting where the core project staff and co-chairs can all meet to discuss various issues? 	JSC-37	Sunday 24th: pre-meeting session
Joint Planning Staff			
15	<ul style="list-style-type: none"> Initiate and support inter-sessional conference calls for JSC, in July (focus on funding issues, other issues as necessary) and October or November (focus on expectations, requirements and preparations for 2016 meeting, other issues as necessary). 	July 2015	Done Successful inter-sessional activity on IPCC Special Report options, regional strategy document, Australia CSIRO letters
16	<ul style="list-style-type: none"> Set up quarterly conference calls among IPOs. 	periodic	Trying to establish infrastructure and behavior patterns to make this a regular practice
17	<ul style="list-style-type: none"> Clarify support and staff assignments within JPS with respect to IPOs. 	ASAP	Detailed discussions have been held in order to clarify all staff's roles within the JPS