

Projects participating in the S2S Real Time Pilot Initiative:

Project ID No.	Name	Project Focus	Sector	User Partners	Project Contact
1	Sea Ice Prediction Network Phase 2	Improve understanding of Arctic sea ice and predictability	Agriculture, Forestry & Fishing Sector	Modelling centres; Shipping industry; Resource management; Defence; Marine mammal subsistence hunting	Cecilia Bitz (University of Washington)
2	Monthly Climate Outlooks	To provide sub-seasonal to seasonal forecasts of temperature and precipitation extremes for DFID priority regions in Africa and South Asia (covering about 50 developing countries)	Humanitarian Sector	DFID humanitarian advisors and crisis anticipation advisors in the humanitarian sector (e.g., Start Network).	Nicholas Klingaman (NCAS)
3	Experimental Subseasonal Forecasting of Atmospheric Rivers along the US West Coast	Provide probabilistic forecasts of atmospheric river occurrence at week-2 (8-day to 14-day) and week-3 (15-day to 21-day) lead over the Western U.S./North Pacific	Water Sector	California Department of Water Resources	Mike DeFlorio (Jet Propulsion Laboratory)
4	ForPAC: Towards Forecast-based Preparedness Action	ForPAC aims towards more anticipatory Early Warning Systems for Flood and Drought Risk in Kenya, through improved S2S hazard forecasts and systematic approaches to the use of forecasts to trigger early actions.	Disaster Risk Management & Humanitarian Sector	Kenya National Drought Management Authority, Kenya Red Cross Society, Kenya Met Dept, ICPAC.	Martin Todd (University of Sussex)
5	Asia Regional Resilience to a Changing Climate (ARRCC)	Applied science for end user application. Regional programme recognising the need for trans boundary delivery, with specific focus on 4 countries - Afghanistan, Bangladesh, Pakistan and Nepal.	DRR (Early Warning) & Agriculture, Forestry & Fishing Sector	ARRCC, Met Office Partnership (MOP) programme and RIMES, user partners to be finalised.	Francis Colledge (Met Office)
6	Navy Earth System Prediction Capability	Determining how to best utilize S2S model forecasts in a potential future operational Navy subseasonal TC prediction capability.	Defence Sector	Naval Research Laboratory; Joint Typhoon Warning Center	Matthew Janiga (Naval Research Laboratory)
7	Digiscape	We are building platform technology that will allow us to take any seasonal climate forecast and use it to force an agricultural model such as for growing grains or pasture to provide real time forecasts.	Agriculture, Forestry & Fishing Sector	CSIRO Agriculture and Food stakeholder network	Jaclyn Brown (CSIRO)

8	S2S4E Sub-seasonal to seasonal climate forecasting for energy	S2S4E (H2020 project) offers an innovative service to improve renewable energy (RE) variability management by developing new research methods exploring the frontiers of weather conditions for future weeks and months. The main output of S2S4E is a user co-designed Decision Support Tool (DST) https://s2s4e-dst.bsc.es/#/ that for the first time integrates sub-seasonal to seasonal (S2S) climate predictions with RE production and electricity demand.	Energy Sector	Energy producers: EDP Renovaveis, EnBW Energie Baden- Wurttemberg and Électricité de France.	Andrea Manrique (Barcelona Super Computing Centre)
9	GCRF-African SWIFT	Development and provision of improved, reliable, and actionable forecasts and early warning across eastern and western sub-Saharan Africa.	DRR (Early Warning); Agriculture, Energy & Water Sector	Spectrum of African user agencies identified by NMSs in agriculture, water, energy & health	Steven Woolnough (University of Reading)
10	Intesa Operativa fra DPC e CNR-ISAC (Operational Agreement between Italian Civil Protection Agency and CNR-ISAC)	Provision of deterministic and probabilistic temperature and precipitation monthly forecasts over the Italian territory using the S2S database.	DRR (Early Warning)	Italian Civil Protection Department (DPC)	Daniele Mastrangelo (Institute of Atmospheric Sciences and Climate (CNR-ISAC))
11	S2S for Disaster Risk Reduction in Southeast Asia	Collaboration between ASEAN Specialised Meteorological Centre (ASMC), United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), and Regional Integrated Multi-Hazard Early Warning System for Asia and Africa (RIMES).	DRR & Humanitarian Sector	Selected national and regional DRR agencies in Southeast Asia (to be finalized).	Thea Turkington (Centre for Climate Research, Singapore)
12	W2SIP (WISER support to ICPAC Project)	The project aims to strengthen the capacity of ICPAC to deliver wide-reaching, usable, new, improved weather and climate products and services anchored on principles of coproduction and user engagement that cascade down to national and sub-national levels and regional user stakeholders in Africa.	NMHS's; DRR; Agriculture, Forestry & Fishing Sector; Humanitarian Sector (food security); Energy Sector; Health Sector; Media Sector	Resilience Analysis Unit (RAU) multi-stakeholder regional technical hub, IGAD DRM, IGAD and FAO Co-chaired Food Security and Nutrition Working Group.	Zewdu Segele (ICPAC)

13	Multi-scale climate variability in South America and sub-seasonal to seasonal prediction	Evaluation of the S2S models' skill in reproducing the observed precipitation variability during the rainy season in the Brazil core monsoon region, as well as the MJO contribution to it; Evaluation of S2S forecasts, including prediction of extreme events; tests of S2S forecasting system	Civil Defence; Agriculture, Forestry & Fishing Sector; Energy Sector	ENGIE BRASIL ENERGIA S.A., the largest private energy producer in Brazil.	Alice Grimm (Universidade Federal do Paraná, Brazil)
14	Tailoring sub-seasonal predictions for Early Warning Systems to support Public Health management - A Case Study in Rio Branco, Acre state, Brazilian Amazon	Assessing the S2S models' capability to anticipate heat waves; Find the relationship between heat waves and disease statistics; Develop a system to give tailored information about upcoming heat waves.	DRR & Health Sector	Acre's institutions: Environment Secretary of the State, the University of Rio Branco, Acre and Woods Hole Centre and the State Commission for Environmental Risk Management.	Christopher Cunningham (CEMADEN, Brazil)
15	Understanding the mechanisms and predictability of persistent large-scale circulations patterns over North America leading to extreme fire weather conditions	Develop benchmark metrics to evaluate the forecast skill of extreme fire weather regimes using dynamical and statistical forecast models.	DRR (Early Warning)	National Interagency Coordination Centre (provides logistical coordination and mobilization to support the wildland fire community) and NWS regional HQ.	Charles Jones (Earth Research Institute)
16	Adapting Agriculture to Climate Today, for Tomorrow (ACToday) - A Columbia University World Project	Help end hunger, achieve food security and improved nutrition, and promote sustainable agriculture (Sustained Development Goal 2). More information here: https://iri.columbia.edu/actoday	Agriculture, Forestry & Fishing Sector; Humanitarian Sector	Ministries of agriculture and rural development in 6 developing countries, (Senegal, Ethiopia, Vietnam, Bangladesh, Guatemala and Colombia), FAO, WFP	Angel Munoz (IRI)