

WP 5

WP 5 attendees at this meeting:
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Drivers of variability and change in European climate

- Improve understanding oceanic drivers of decadal variability of European climate.
- Assess the influences of Arctic sea ice decline and Siberian autumn snow cover reduction on the decadal variability of European climate.

Science issues (A)

- AMV/IPV experiments:
 - Choice of the Pacific pattern: IPO
 - The number of members HR ensemble : 10
 - Climatology: 1950 (both HR and LR). Optional: 1850 for LR to fit DCPP-C requirement
 - DQ/DT: Constant coefficient at $-40 \text{ W/m}^2/\text{K}$. On going test at Cerfacs on the mixed-layer method.

Science issues (B)

- Sea-ice experiments
 - AMIP experiments: the control is the WP6 AMIP experiment. The perturbed experiment covers 1991-2015 with climatological sea-ice from the 1979-1990 period, everything else being identical to the CTRL run (with SST adjustments in marginal zones).
 - Coupled experiments: the control is the WP6 control experiment (1950 external forcings). In the perturbed experiment (50 years minimum), we abruptly change the sea-ice albedos in the model.
 - Snow experiments: to be coordinated by the partners that are planning to do them.

Technical issues

- Groups are still fine tuning their models; should be done soon
- Dependencies: the 1950 coupled control run from WP6 to initialize the AMV/IPV and coupled sea-ice experiments

Timescales

- first priority:
 - to achieve the Perturbed sea-ice AMIP runs in parallel with the AMIP core WP6 experiments (1st semester of 2017).
 - Start AMV coupled expts once the coupled CTRL WP6 is completed (likely next summer).
- Our second priority:
 - the IPV experiments and coupled sea-ice perturbed experiments (late 2017, early 2018).

External science interactions

- Interaction with DCP-C panel (C. Cassou, R. Msadek)
- Interaction about Arctic sea-ice with the H2020 APPLICATE (T. Jung) that just started.
- Interaction with ACSIS (UK project on the North Atlantic)

Deliverables and Milestones over the next year

- None: D5.1 completed in August 2016, D5.2 and D5.3 due in 11/2018, D5.4 at the end of the project