Highlights of the APPLICATE project include:

- Development of process-oriented and user-relevant metrics and diagnostics.
- Development of a coupled atmosphere-sea ice-ocean single-column model.
- Contribution to the development of the Polar Amplification Model Intercomparison Project (PAMIP).
- Testing of forcing fields for PAMIP.
- Evaluation of the importance of assimilating sea ice concentration and sea ice thickness for Arctic seasonal prediction.
- Investigation of the impact of atmospheric observations on medium range forecasts in polar and lower latitude regions.
- Finalization of baseline forecast experiments (Stream 1) on which the impact of APPLICATE developments will be tested (Stream 2).
- Establishment of a data management system and post processing environment.
- Production and dissemination of the ECMWF-YOPP Analysis and Forecast Dataset.
- Engagement with stakeholders through user-group and events.
- Organisation of a training school and numerous webinars.
- Determination of the present limits of predictability in the Arctic from daily to sub-seasonal time scales.

16 PARTNERS FROM NINE COUNTRIES

UNDERSTANDING ARCTIC'S CONNECTIONS TO WEATHER AND CLIMATE ACROSS THE NORTHERN HEMISPHERE
What is APPLICATE?
A four-year project funded by the EU’s Horizon 2020 Research and Innovation programme with a budget of €8 million
A consortium of 16 expert organisations from nine different countries

APPLICATE’s objectives:
- Establish an effective dialogue with a network of key stakeholders in order to obtain feedback to help improve modelling and forecasting
- Widely disseminate the results of the project to those who can benefit from improved Arctic observations and enhanced weather and climate predictions
- Work in cooperation with European and international scientific partners
- Contribute to the Year of Polar Prediction and IPCC assessment reports
- Build a seamless community

Cooperation as a key to success!

Those who benefit from the work of the APPLICATE project include:
- Climate scientists and modellers
- Operational forecasting centres
- Emergency services
- Any business sector that is vulnerable to climate and weather from the Arctic to the mid-latitudes (tourism, shipping, agriculture, insurance, etc.)
- Policymakers at local, regional and national levels relying on climate and weather predictions to make well-informed decisions

Realistic sea ice deformation features start to emerge in high-resolution simulations.

We welcome stakeholder feedback!
Are you a climate scientist, modeller, weather forecaster, or a user of climate and weather services? Then you are an APPLICATE stakeholder!
The APPLICATE consortium welcomes feedback from all stakeholders from outside the project to contribute to its work to improve climate and weather forecasting in the Arctic and mid-latitudes.

You can get involved by joining our blog or by providing us feedback directly at:
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