



WCRP School on Climate Prediction Across Timescales

23 - 27 February, 2026
Facultad de Ciencias Exactas y Naturales,
Universidad de Buenos Aires,
Buenos Aires, Argentina

With lectures by:
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Summary Report

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The WCRP School on Climate Prediction Across Timescales was held from 23–27 February at the University of Buenos Aires. The school was organised by WGSIP and ESMO, in parallel with the WGSIP Annual Meeting. It brought together approximately 30 participants, including graduate students, postdoctoral researchers, early-career scientists, and professionals working in climate services and operational prediction.

The school addressed key knowledge and skills gaps related to climate prediction across sub-seasonal, seasonal, decadal, and longer timescales. Forecasts across these timescales have a wide range of applications in climate services, including disaster preparedness, risk management, and short-, medium-, and long-term planning. However, the methods used to produce, evaluate, interpret, and combine such forecasts are often complex. The programme therefore aimed to strengthen participants' understanding of predictability, forecast skill, uncertainty assessment, sources of predictability, and cross-timescale interactions.

The five-day programme combined foundational and advanced lectures with interactive, hands-on laboratory sessions. Several WGSIP members contributed as instructors, delivering lectures and leading practical exercises. The school also placed strong emphasis on applied learning, with participants working with real climate prediction datasets and Python notebooks rather than synthetic examples.

Participants engaged in group discussions, applied exercises, and mini-projects that brought together the concepts and tools introduced during the week. These mini-projects gave participants the opportunity to apply their newly acquired knowledge to specific prediction problems and to work collaboratively with peers. At the conclusion of the school, participants presented their results, demonstrating both technical progress and the ability to communicate findings clearly.

The school was hosted and supported by the Universidad de Buenos Aires; CONICET – Universidad de Buenos Aires; the Centro de Investigaciones del Mar y la Atmósfera (CIMA); and the Instituto Franco-Argentino de Estudios sobre el Clima y sus Impactos (IFAECI). Additional support was provided by the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste.

Conclusion

Overall, the School on Climate Prediction Across Timescales successfully contributed to capacity building in climate prediction science and applications. Feedback from participating students was overwhelmingly positive, particularly on the combination of lectures, hands-on training, real datasets, and opportunities for discussion. The school provided early-career researchers and climate service professionals with new theoretical understanding, practical skills, and professional connections to support their future work in climate prediction and climate services.

A few highlight pictures from the school

