



Report of the United Nations Secretary

- General on Oceans and the Law of the  
Sea 2019

“Ocean Science and the United Nations Decade of Ocean Science for  
Sustainable Development”

Contribution by the World Meteorological Organization (WMO)

- (i) Advancing ocean science and identifying and addressing gaps in  
knowledge and ocean sciences.

We are at a critical time for advancing how we observe, understand and predict the role  
of the ocean in the Earth system across all timescales from weather to climate.

These developments require significant underpinning by research and development to  
enable models to include increasingly complex natural processes at smaller scales and  
their feedbacks.

(i)

Societal Outcomes	WMO Priorities
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outcome of the workshop will be a set of recommendations with relevant standards and a workable list of marine meteorological and oceanographic variables, including from exclusive economic zones, indispensable for the issue of timely and accurate storm warnings for the safety of life at sea and the protection of life and property in coastal and offshore areas

(iii) The cross cutting role of ocean science in Sustainable Development Goal 14 of the 2030 Agenda for Sustainable Development.

SDG- 14: 'Conserve and sustainably use the oceans, seas and marine resources for sustainable development.' <https://sustainabledevelopment.un.org/sdg14>

WMO, National Meteorological and Hydrological Services and other national entities support international efforts to monitor the Essential Ocean Variables that enable us to

- B Within the UN e.g. Global Climate Observing System planning and reporting, including submissions to the UNFCCC, and coordinating the models used by the IPCC and UNFCCC (Coupled Model Intercomparison Project);
- B Outside of the UN, for example by working in close partnership with the Arctic Council and its Working Groups and the Antarctic Treaty System.

(vi) Strengthening ocean science in developing countries

The World Climate Research Programme's CLIVAR (Climate and Oceans) project holds a number of annual workshops with a strong focus on developing countries. For example, workshops at least every other year in association with the First Institute of Oceanography in Qingdao, China, with a particular focus on Early Career Scientists from developing countries <sup>2</sup>.

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<sup>2</sup> <http://clivar.org/events/clivar-fio-joint-summer-school-2018>