

Status of Surface Radiation Budget Observation for Climate

N. Ohkawara¹

¹*Japan Meteorological Agency, Tokyo, Japan*

Text:

Surface radiation budget is a fundamental component for monitoring climate change and designated one of the climate essential variables (ECVs) of the Global Climate Observing System (GCOS). The status of surface radiation budget observation is reported in "Status of the Global Observing System for Climate" that was submitted at the 43rd session of the Subsidiary Body for Scientific and Technological Advice (SBSTA 43) ahead the COP21 in Paris, France in December 2015 under the United Nations Framework Convention on Climate Change (UNFCCC).

The report says that the total amount of surface radiation budget data in national network and the baseline surface radiation network (BSRN) archived at world data centres has significantly increased and the data contributed considerably to infer best estimates for the global mean surface radiative components reported in the 5th IPCC assessment report. But regular receipt of data has remained about the same and data scarce areas also remain on the sea and in some regions on the land in these 5 years. Expanding of surface radiation budget observation network is necessary to enhance scientific knowledge for further understanding of climate change.