2017 Dobson intercomparison campaign for Australia and Oceania, hosted by the Australian Bureau of Meteorology

The WMO Global Atmosphere Watch regional Dobson intercomparison campaign was held at the Bureau of Meteorology field annex outside Melbourne, Australia, 13– 24 February 2017. The campaign was designed primarily for the intercomparison of the regional association V (South-West Pacific) Regional Standard Dobson (D 105) against the World Standard (D 083). Two additional Dobson instruments from the region's member countries also participated - D 072 from Lauder, New Zealand, operated by the National Institute of Water and Atmospheric Research and D 052 from Manila, operated by the Philippines Atmospheric, Geophysical and Astronomical Services Administration. Furthermore, the regional association II (Asia) Standard (D 116), operated by the Japanese Meteorological Agency, also took part in the intercomparison in order to provide traceability of Asian instruments to the World Standard. All the participating instruments were successfully calibrated against the World Standard during a short spell of sunny weather in the second week of the campaign. The General Trust Fund for Financing Activities on Research and Systematic Observations Relevant to the Vienna Convention supported the travel costs of the two participants from the Philippines as well as the shipping of Dobson 052 from Manila to Melbourne, Australia. This support also enabled the extensive training provided by Dobson experts from Australia, Japan and the United States regarding Dobson operation and testing procedures, as well as the refurbishment and repair of the instruments. Together, these actions should ensure a high quality of ozone observations in the tropical western Pacific.