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Towards sustainable observations in support of climate services

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All climate services, from data provision through climate prediction through climate change adaptation, depend on climate data that are secure, reliable and accessible. In recognition of this, the World Meteorological Organization's Commission for Climatology is focusing attention on two major data initiatives, (1) data rescue and recovery (DARE); and (2) the establishment of a climate data management system (CDMS) capability, particularly in developing countries that enable secure archival and easy access to climate data. Between them, these initiatives will enable the National Meteorological Services of the world to harness all available data for service provision to their own people, as well as supporting international climate monitoring and adaptation activities. Major activities of these groups include: For Data Rescue: - identify needs for rescue of historical data; establish synergies across different DARE-related initiatives (e.g., ACRE); set up an international Data Rescue web-portal, showing what work is underway, and where gaps remain. For CDMS: - specify functionality required of a CDMS, extend functionality to include facilities for archival of remote-sensing and high frequency data; incorporate interoperable data exchange capability; and assess and revise capacity-building in CDMS. The poster will present a brief review of plans for these initiatives over the next few years, and the progress to date.