

ACKNOWLEDGMENTS

In addition to the specific acknowledgments below readers are directed to *Appendix 1: Relevant Datasets and Sources* for information on specific data and products availability and relevant climate variables or phenomena.

The editors thank the AMS Journals editorial staff, in particular Andrea Herbst, and the NCEI graphics team for facilitating the construction of the report, and executing the countless number of technical edits needed. We also express our gratitude to Dr. Rick Rosen, who again served as the AMS special editor for this report. His handling of the reviews was thoughtful and timely. We also thank NOAA's Rotational Assignments Program and the Raleigh, NC National Weather Service Forecast Office for bringing Gail Hartfield to the document this year; her fresh set of eyes and professional perspective were quite valuable.

Chapter 2

Editors:

- The chapter editors thank David Parker, John Kennedy, and Elizabeth Good for providing details and comprehensive internal reviews of this chapter. The editors also thank Paul Berrisford (ECMWF), Mike Bosilovich (NASA), and Shinya Kobayashi (JMA) for timely provision of reanalysis data used herein. Robert Dunn, Kate Willett, Colin Morice, and Rob Allan were supported by the Joint UK BEIS/Defra Met Office Hadley Centre Climate Programme (GA01101).

Section 2b2 (Lake Surface Temperature):

- RIW was funded by EUSTACE (EU Surface Temperature for All Corners of Earth) which received funding from the European Union's Horizon 2020 Programme for Research and Innovation, under Grant Agreement no 640171. Satellite data processed under UK Natural Environment Research Council project Globolakes (grant reference NE/J023345/2). This work was partly supported by Russian Ministry of Education and Science (project #6.1387.2017), by the grants of Russian Science Foundation MA - 17-14-01063 and of the Lake Baikal Foundation for support of applied ecological studies (<https://baikalfoundation.ru/project/tochka-1/>). SGS and SW funded by the Tahoe Regional Planning Agency. Lake surface water temperatures in Poland were provided by the Institute of Meteorology and Water Management in Warsaw.

Section 2b3 (Temperature Extremes):

- SEPK is supported by ARC grant number FT170100106.

Section 2b5 (Lower Stratospheric Temperature):

- Work performed by Stephen Po-Chedley at LLNL was performed under the auspices of the U.S. Department of Energy under Contract DE-AC52-07NA27344 and under LDRD 18-ERD-054.

Section 2d6 (River Discharge):

- Hyungjun Kim was supported by the Japan Society for the Promotion of Science KAKENHI (16H06291) for this contribution.

Section 2d7 (Terrestrial Water Storage):

- This research was supported by grants from NASA's GRACE and GRACE-FO Science Team. GRACE land data processing is supported by the NASA MEaSURES Program.

Section 2d8 (Soil Moisture):

- The ESA CCI SM datasets and the authors were supported by ESA's Climate Change Initiative for Soil Moisture (Contract No. 4000104814/11/I-NB and 4000112226/14/I-NB) and the European Union's FP7 EarthH2Observe "Global Earth Observation for Integrated Water Resource Assessment" project (grant agreement number 331 603608). We would also like to thank support from the Copernicus Climate Change Service implemented by ECMWF.

Section 2d9 (Soil Moisture):

- Tim Osborn received funding from UK NERC (NE/P006809/1). Jonathan Barichivich received funding from (CR)2 Chile (CONICYT /FONDAP/15110009). Ian Harris received funding from UK National Centre for Atmospheric Science (NCAS).

Section 2g (Atmospheric Composition):

- Historical ozone observations from the 1950s at Mauna Loa Observatory and from the 1960s at South Pole were digitized by Samuel J. Oltmans, NOAA, retired. The authors would like to acknowledge a NASA Upper Atmosphere Composition grant for support that helps sustain the frost point hygrometer soundings at Boulder, Lauder and Hilo. Henry Selkirk and Holger Vömel would like to acknowledge support from the NASA

Upper Atmosphere Composition Observations program. The CAMS interim Reanalysis has been produced by the Copernicus Atmosphere Monitoring Services (CAMS). The European Centre for Medium-Range Weather Forecast (ECMWF) runs CAMS on behalf of the European Commissions. Antje Inness and Johannes Flemming are funded by CAMS. Melanie Coldewey-Egbers, Daan Hubert, Diego Loyola, Victoria Sofieva, and Mark Weber are grateful to ESA's Climate Change Initiative Ozone project and to the EU Copernicus Climate Change Service 312a Lot4 Ozone project for supporting the generation and extension of the GTO-ECV total ozone and SAGE-CCI-OMPS data records. Stacey M. Frith is supported by the NASA Long Term Measurement of Ozone program WBS 479717. Lucien Froidevaux's contribution, with the assistance of Ryan Fuller, was performed at the Jet Propulsion Laboratory, California Institute of Technology, under contract with NASA. Daan Hubert acknowledges the partial support by the EU/ERC Horizon 2020 project GAIA-CLIM.

Section 2h2 (Vegetation Dynamics):

- The authors would like to thank the SeaWiFS Project (Code 970.2) and the Goddard Earth Sciences Data and Information Services Center/ Distributed Active Archive Center (Code 902) at the Goddard Space Flight Center, Greenbelt, MD 20771, for the production and distribution of these data, respectively. These activities are sponsored by NASA's Earth Science Enterprise.

Section 2h3 (Biomass Burning):

- The GFASv1.4 dataset was provided by GFAS-CLIM project, which is funded by the German Bundesministerium für Wirtschaft und Energie (BMW i FKZ 50EE1543), and the Copernicus CAMS_44 project.

Sidebar 2SB.1 (Extreme Precipitation):

- NCAR is sponsored by the National Science Foundation.

Sidebar 2SB.2 (Phenology):

- The authors thank reviewers, T. Rutishäuser (Swiss Academies of Arts and Science, Berne, Switzerland) and T. Sparks (Coventry University, Coventry, UK), for their internal review.

Chapter 3

- The editor thanks NOAA/PMEL's Sandra Bigley for her invaluable work in assembling and copy editing Chapter 3.

Sidebar 3.1 (Coral bleaching):

- NOAA Coral Reef Watch work is supported primarily by the NOAA Coral Reef Conservation Program and the NOAA National Environmental Satellite, Data, and Information Service's Center for Satellite Applications and Research. The scientific results and conclusions, as well as any views or opinions expressed herein, are those of the author(s) and do not necessarily reflect the views of NOAA or the U.S. Department of Commerce.

Section 3e (Global ocean heat, freshwater, and momentum fluxes):

- The GPCP SG combined precipitation data were developed and computed at the NASA/Goddard Space Flight Center's Mesoscale Atmospheric Processes Laboratory–Atmospheres as a contribution to the GEWEX Global Precipitation Climatology Project.

Section 3h (AMOC and AMHT):

- Data from the RAPID-WATCH MOC monitoring project are funded by the Natural Environment Research Council.
- MOVE contributions were made under award NA15OAR4320071 from the Climate Observations Division, National Oceanic and Atmospheric Administration, U.S. Department of Commerce. Previously, MOVE was funded by the German Bundesministerium für Bildung und Forschung (Grants 03F0246A and 03F0377B).
- The Florida Current cable and section data are funded by the DOC-NOAA Climate Program Office - Ocean Observing and Monitoring Division.
- The XBT data are funded by the NOAA Office of Climate Observations.
- Argo data are collected and made freely available by the International Argo Program and the national programs that contribute to it; the Argo Program is part of the Global Ocean Observing System.

Chapter 4

The editors would like to extend their thanks and appreciation to Joe Pelissier, the retired Meteorologist-in-Charge of the NOAA/NWS Weather Forecast Office in Greenville-Spartanburg, SC, for his inputs regarding the passing of his good friend and colleague Charlie Neumann. Carl Schreck was supported by NOAA through the Cooperative Institute for Climate and Satellites - North Carolina under Cooperative Agreement NA14NES432003.

Chapter 5

Editor Team:

- Martin Jeffries thanks the Office of Naval Research (Code 32) for supporting his role as Associate Editor of the State of the Climate Report and co-editor of the Arctic section. Jackie Richter-Menge acknowledges that this publication is the result in part of research sponsored by the Cooperative Institute for Alaska Research with funds from the National Oceanic and Atmospheric Administration under cooperative agreement NA13OAR4320056 with the University of Alaska. Emily Osborne acknowledges the NOAA Arctic Research Program for supporting her role as co-editor of the State of the Climate Report Arctic section and coauthor of the paleoclimate sidebar.

Section 5e (Greenland):

- Marco Tedesco would like to acknowledge the NASA Cryosphere Program (NNX17AH04G, NNX16AH38G), the NASA IDS program (NNX14AD98G) and the Office of Polar Programs at the National Science Foundation (OPP 1643187, PLR-1603331). PROMICE stations are funded by the Danish Energy Agency. KAN stations are funded by SKB. IS acknowledges funding by the Helmholtz Climate Initiative REKLIM (Regional Climate Change), a joint research project of the Helmholtz Association of German Research Centres (HGF) and the German Research Foundation through grant SA 1734/4-1. The Netherlands Polar Programme (NPP) of the NWO (Netherlands Institute for Scientific Research) is acknowledged for the K-transect support.

Section 5g (Terrestrial permafrost):

- Vladimir Romanovsky and coauthors acknowledge the support of the State of Alaska, the National Science Foundation (grants PLR-0856864 and PLR-1304271 to the University of Alaska Fairbanks; PLR-1002119 and PLR-1304555 to the

George Washington University), Natural Resources Canada and the Norwegian Meteorological Institute. Support was also provided by the Russian Science Foundation (project RNF 16-17-00102) and by the government of the Russian Federation.

Section 5j (Ozone and UV radiation):

- G. Bernhard and coauthors acknowledge the U.S. National Science Foundation for supporting UV measurements at Barrow and Summit, a Research Council of Norway Centres of Excellence award (Project 223268/F50) to the Norwegian Radiation Protection Authority, and the Academy of Finland for supporting UV measurements through the FARPOCC, SAARA, and ILMA pilot projects. We also acknowledge Tove Svendby from the Norwegian Institute for Air Research and Arne Dahlback from the University of Oslo for overseeing UV measurements at Oslo, Andøya and Ny-Ålesund, and thank Juha M. Karhu, Tomi Karppinen and Markku Ahponen from the Finnish Meteorological Institute for operating the Brewer UV spectroradiometer at Sodankylä.

Chapter 6

The editors wish to acknowledge and thank the authors for their timely contributions, with additional special thanks to the internal and external reviewers and Document Editors for their thoughtful and constructive comments. The editors also wish to thank Dr. Sam Batzli of the Space Science and Engineering Center at the University of Wisconsin-Madison for his generation of the map in Figure 6.1.

- Ted Scambos was supported under NASA grant NNX16AN60G and NSF PLR 1565576, and thanks the National Snow and Ice Data Center.
- Sharon Stammerjohn was supported under NSF PLR 1440435; she also thanks the Institute of Arctic and Alpine Research and the National Snow and Ice Data Center, both at the University of Colorado Boulder, for institutional and data support.
- Linda Keller and Matthew Lazzara were supported by the Automatic Weather Station Program, National Science Foundation, PLR-1543305.
- Sebastiaan Swart was supported by a Wallenberg Academy Fellowship (WAF 2015.0186).

- The work of Rob Massom, Phil Reid, Jan Lieser, and Steve Rintoul was supported by the Australian Government's Cooperative Research Centre program through the Antarctic Climate & Ecosystems CRC, and contributes to AAS Project 4116. PR was also supported through the Bureau of Meteorology.
- Australian Research Council's Special Research Initiative for Antarctic Gateway Partnership (Project ID SR140300001).
- Jean-Baptiste Sallée was supported by the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation program (Grant Agreement no 637770); Mike Meredith received funding from the Natural Environment Research Council via award NE/N018095/1.
- Work at the Jet Propulsion Laboratory, California Institute of Technology, was done under contract with the National Aeronautics and Space Administration (NASA). Work at NASA GSFC is supported through NASA's Atmospheric Composition Modeling and Analysis Program.

Chapter 7

The editors acknowledge and thank the numerous national meteorological and hydrological services for collecting and providing data for this report. Data centers like NCEP/NCAR, ECMWF-ERA, and CHIRPS are also acknowledged for making their data freely available.

Acknowledgments for specific regions are as follows:

Africa:

The editor expresses particular thanks to the following national meteorology and hydrology services for their contributions to our report:

- North Africa: National Meteorological and Hydrological Services of Morocco and Egypt
- West Africa: National Meteorological and Hydrological Services of The Gambia and Nigeria
- East Africa: National Meteorological Agency of Ethiopia
- South Africa: National Meteorological Services of South Africa
- Indian Ocean: Meteorological and Hydrological Services of Seychelles, Comoros, Mayotte, La Reunion, Mauritius, and Rodriguez.

Europe:

Valuable climate information was provided by National Meteorological and Hydrological Services (NMHSs) of the WMO RA VI Region, either by direct submission to the authors or via the web.

Asia:

The Editor wishes to thank all the authors for their timely contributions, and the internal and external reviewers and document editors for their thoughtful and constructive comments. The following grants (China National Key R&D Program 2017YFA0603802 and 2015CB453201, NSFC grant 41630423, NSF grant AGS-1643297) are acknowledged.

ACRONYMS AND ABBREVIATIONS

BASS:	Blended Analysis of Surface Salinity (NOAA)	MLO:	Mauna Loa Observatory (Hawaii, US)
CCI:	Climate Change Initiative	MRI/JMA:	Meteorological Research Institute/ Japan Meteorological Agency
CERES:	Clouds and the Earth's Radiant Energy Systems	NASA:	National Aeronautics and Space Administration (US)
CFSR:	Climate Forecast System Reanalysis (NCEP)	NCAR:	National Center for Atmospheric Research (US)
CIIFEN:	Centro Internacional para la Investigación del Fenómeno El Niño (Ecuador)	NCEI:	National Centers for Environmental Information (NOAA)
CMAP:	CPC Merged Analysis of Precipitation	NCEP:	National Centers for Environmental Prediction (NOAA)
CMEMS:	Copernicus Marine and Environment Monitoring Service	NOAA:	National Oceanic and Atmospheric Administration (US)
CPC:	Climate Prediction Center (NOAA)	NSIDC:	National Snow and Ice Data Center (US)
CSIRO/ACE CRC/IMAS-UTAS:	(Australia) Commonwealth Scientific and Industrial Research Organisation	OLR:	outgoing longwave radiation
	Antarctic Climate & Ecosystems Cooperative Research Centre	PMEL/JPL/JIMAR:	(US) Pacific Marine Environmental Laboratory/Jet Propulsion Laboratory/
	Institute for Marine and Antarctic Studies - University of Tasmania		Joint Institute for Marine and Atmospheric Research
DWD:	Deutscher Wetterdienst	RAPID-MOC/MOCHA/WBTS:	(International, UK-led)
ECV:	Essential Climate Variable		RAPID Climate Change Programme-Meridional Overturning Circulation Meridional Overturning Circulation and Heatflux Array
ESA:	European Space Agency		Western Boundary Time Series
ESRL:	Earth System Research Laboratory (NOAA)	RSW:	reflected shortwave
FLASHFlux:	Fast Longwave And Shortwave Radiative Fluxes	TOA:	top of atmosphere
GO-SHIP:	Global Ocean Ship-based Hydrographic Investigations Program	TRMM:	Tropical Rainfall Measuring Mission
GODAS:	Global Ocean Data Assimilation System	TSI:	total solar irradiance
GPCP:	Global Precipitation Climatology Project	WOA:	World Ocean Atlas
GRACE:	Gravity Recovery and Climate Experiment		
INMET:	Instituto Nacional de Meteorologia (Brazil)		

Additional acronyms and abbreviations can be found at this AMS website www.ametsoc.org/ams/index.cfm/publications/authors/journal-and-bams-authors/and-manuscript-components/list-of-acronyms-and-abbreviations/

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- , S. Rehman, J. A. Guijarro, T. R. McVicar, L. Minola, D. Chen, and S. M. Vicente-Serrano, 2018a: Recent trends in wind speed across Saudi Arabia, 1978–2013: A break in the stilling. *Int. J. Climatol.*, **38** (S1), e966–e984, <http://doi.org/10.1002/joc.5423>.
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