



Corrigendum to **“Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems” published in Atmos. Chem. Phys., 17, 1417–1452, 2017**

Masatomo Fujiwara¹, Jonathon S. Wright², Gloria L. Manney^{3,4}, Lesley J. Gray^{5,6}, James Anstey⁷, Thomas Birner⁸, Sean Davis^{9,10}, Edwin P. Gerber¹¹, V. Lynn Harvey¹², Michaela I. Hegglin¹³, Cameron R. Homeyer¹⁴, John A. Knox¹⁵, Kirstin Krüger¹⁶, Alyn Lambert¹⁷, Craig S. Long¹⁸, Patrick Martineau¹⁹, Andrea Molod²⁰, Beatriz M. Monge-Sanz²¹, Michelle L. Santee¹⁷, Susann Tegtmeier²², Simon Chabrillat²³, David G. H. Tan²¹, David R. Jackson²⁴, Saroja Polavarapu²⁵, Gilbert P. Compo^{10,26}, Rossana Dragani²¹, Wesley Ebisuzaki¹⁸, Yayoi Harada^{27,28}, Chiaki Kobayashi²⁸, Will McCarty²⁰, Kazutoshi Onogi²⁷, Steven Pawson²⁰, Adrian Simmons²¹, Krzysztof Wargan^{20,29}, Jeffrey S. Whitaker²⁶, and Cheng-Zhi Zou³⁰

¹Faculty of Environmental Earth Science, Hokkaido University, Sapporo, 060-0810, Japan

²Center for Earth System Science, Tsinghua University, Beijing, 100084, China

³NorthWest Research Associates, Socorro, NM 87801, USA

⁴Department of Physics, New Mexico Institute of Mining and Technology, Socorro, NM 87801, USA

⁵Atmospheric, Oceanic and Planetary Physics, University of Oxford, Oxford, OX1 3PU, UK

⁶NERC National Centre for Atmospheric Science (NCAS), Leeds, LS2 9JT, UK

⁷Canadian Centre for Climate Modelling and Analysis, Environment and Climate Change Canada, University of Victoria, Victoria, V8W 2Y2, Canada

⁸Department of Atmospheric Science, Colorado State University, Fort Collins, CO 80523, USA

⁹Earth System Research Laboratory, National Oceanic and Atmospheric Administration, Boulder, CO 80305, USA

¹⁰Cooperative Institute for Research in Environmental Sciences, University of Colorado at Boulder, Boulder, CO 80309, USA

¹¹Courant Institute of Mathematical Sciences, New York University, New York, NY 10012, USA

¹²Laboratory for Atmospheric and Space Physics, University of Colorado, Boulder, CO 80303, USA

¹³Department of Meteorology, University of Reading, Reading, RG6 6BB, UK

¹⁴School of Meteorology, University of Oklahoma, Norman, OK 73072, USA

¹⁵Department of Geography, University of Georgia, Athens, GA 30602, USA

¹⁶Department of Geosciences, University of Oslo, 0315 Oslo, Norway

¹⁷Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA 91109, USA

¹⁸Climate Prediction Center, National Centers for Environmental Prediction, National Oceanic and Atmospheric Administration, College Park, MD 20740, USA

¹⁹Department of Atmospheric and Oceanic Sciences, University of California Los Angeles, Los Angeles, California, CA 90095, USA

²⁰Global Modeling and Assimilation Office, Code 610.1, NASA Goddard Space Flight Center, Greenbelt, MD 20771, USA

²¹European Centre for Medium-Range Weather Forecasts, Shinfield Park, Reading, RG2 9AX, UK

²²GEOMAR Helmholtz Centre for Ocean Research Kiel, 24105 Kiel, Germany

²³Royal Belgian Institute for Space Aeronomy (BIRA-IASB), 1180 Brussels, Belgium

²⁴Met Office, FitzRoy Road, Exeter, EX1 3PB, UK

²⁵Climate Research Division, Environment and Climate Change Canada, Toronto, Ontario, M3H 5T4, Canada

²⁶Physical Sciences Division, Earth System Research Laboratory, National Oceanic and Atmospheric Administration, Boulder, CO 80305, USA

²⁷Japan Meteorological Agency, Tokyo, 100-8122, Japan

²⁸Climate Research Department, Meteorological Research Institute, JMA, Tsukuba, 305-0052, Japan

²⁹Science Systems and Applications Inc., Lanham, MD 20706, USA

³⁰Center for Satellite Applications and Research, NOAA/NESDIS, College Park, MD 20740, USA

Correspondence: Jonathon S. Wright (jswright@tsinghua.edu.cn) and Masatomo Fujiwara (fuji@ees.hokudai.ac.jp)

Published: 21 February 2019

We would like to inform you that a corrigendum for the Supplement is required. (See Appendix A of the paper for all the abbreviations.) The following has been corrected in the Supplement:

- February 2018 – S-RIP_boundary_conditions.xlsx has been updated to S-RIP_boundary_conditions_rv1.xlsx; the TSI values for NCEP-NCAR R1 have been corrected.
- February 2019 – S-RIP_verticalgrids.xlsx has been updated to S-RIP_verticalgrids_rv2.xlsx; the CFSR “*a*” coefficients (in Column J) have been corrected.

- February 2019 – S-RIP_streams.xlsx has been updated to S-RIP_streams_rv2.xlsx; the description of the CFSR production during 2010 has been corrected.

We also would like to inform you that Table 4 has two typesetting errors. In the second column of the “ERA-Interim” section of the table, the third and fourth lines (starting “NOAA” and “NCEP”, respectively) are wrongly shifted one column to the left. The following is the corrected version of Table 4.

Table 4. Sources of SST and sea ice lower boundary conditions used in reanalyses.

Reanalysis system	Data set	Grid	Time	Reference
ERA-40	HadISST1 (Sep 1957–Nov 1981)	1°	monthly	Rayner et al. (2003)
	NCEP 2DVar (Dec 1981–Jun 2001)	1°	weekly	Reynolds et al. (2002)
	NOAA OISSTv2 (Jul 2001–Aug 2002)	0.25°	daily	Reynolds et al. (2007)
ERA-Interim	HadISST1 (Sep 1957–Nov 1981)	1°	monthly	Rayner et al. (2003)
	NCEP 2DVar (Dec 1981–Jun 2001)	1°	weekly	Reynolds et al. (2002)
	NOAA OISSTv2 (Jul 2001–Dec 2001)	0.25°	daily	Reynolds et al. (2007)
	NCEP RTG (Jan 2002–Jan 2009)	0.083°	daily	Gemmill et al. (2007)
	OSTIA (Feb 2009–present)	0.05°	daily	Donlon et al. (2012)
ERA-20C	HadISSTv2.1.0.0	0.25°	daily	Titchner and Rayner (2014)
JRA-25/JCDAS	COBE	1°	daily	Ishii et al. (2005)
	NH sea ice analysis			Walsh and Chapman (2001)
	SH sea ice analysis			Matsumoto et al. (2006)
JRA-55 ^a	COBE	1°	daily	Ishii et al. (2005)
	NH sea ice analysis			Walsh and Chapman (2001)
	SH sea ice analysis (after Oct 1978)			Matsumoto et al. (2006)
MERRA	Hadley Centre (Jan 1979–Dec 1981)	1°	monthly	none (personal communication)
	NOAA OISSTv2 (Jan 1982–present)	1°	weekly	Reynolds et al. (2002)
MERRA-2	AMIP-II (Jan 1980–Dec 1981)	1°	monthly	Taylor et al. (2000)
	NOAA OISSTv2 (Jan 1982–Mar 2006)	0.25°	daily	Reynolds et al. (2007)
	OSTIA (Apr 2006–present)	0.05°	daily	Donlon et al. (2012)
NCEP-NCAR R1	SSTs:			
	Met Office GISST (Jan 1948–Oct 1981)	1°	monthly	Parker et al. (1995)
	NOAA OISSTv1 (Nov 1981–Dec 1994)	1°	weekly	Reynolds and Smith (1994)
	NOAA OISSTv1 (Jan 1995–present)	1°	daily	Reynolds and Smith (1994)
	Sea ice:			
	Navy/NOAA JIC (Jan 1948–Oct 1978)	varies	varies	Kniskern (1991)
SMMR and SSM/I (Nov 1978–present)	25 km	monthly	Grumbine (1996)	
NCEP-DOE R2	AMIP-II (Jan 1979–15 Aug 1999)	1°	monthly	Taylor et al. (2000)
	NOAA OISSTv1 (16 Aug–Dec 1999)	1°	monthly	Reynolds and Smith (1994)
	NOAA OISSTv1 (Jan 2000–present)	1°	daily	Reynolds and Smith (1994)
CFSR/CFSv2 ^b	HadISST1.1 (Jan 1979–Oct 1981)	1°	monthly	Rayner et al. (2003)
	NOAA OISSTv2 (Nov 1981–present)	0.25°	daily	Reynolds et al. (2007)
NOAA-CIRES 20CR v2 ^c	HadISST1.1	1°	monthly	Rayner et al. (2003)

^a A climatology is used for sea ice in the Southern Hemisphere in JRA-55 prior to October 1978 (Kobayashi et al., 2015). ^b CFSR and CFSv2 produce SST analyses but relax these internal products to the external SST analyses listed here (Saha et al., 2010). ^c Sea ice concentrations were mis-specified in coastal regions during the production of 20CR (Compo et al., 2011).