

APPENDIX I: RELEVANT DATASETS AND SOURCES

General Variable or Phenomenon	Specific Dataset or Variable	Source	Section
Aerosols	CAMS Reanalysis	https://atmosphere.copernicus.eu/	2g3
Air–sea fluxes	CERES Energy Balanced and Filled	https://ceres.larc.nasa.gov/	3e1
	CERES FLASHflux	https://eosweb.larc.nasa.gov/project/ceres/ebaf_surface_table	3e1, 3e4
	Woods Hole Oceanographic Institute OAFlux	http://oafux.whoi.edu	3e1, 3e3, 3e4
Albedo	MODIS	http://ladsweb.nascom.nasa.gov	2h1, 5e3
Biomass, Greenness or Burning	GFAS v1.4	ftp://ftp.mpic.de/GFAS/sc17	2h3
	GFEDv4	https://daac.ornl.gov/VEGETATION/guides/fire_emissions_v4.html	2h3
	MODIS NDVI	https://ecocast.arc.nasa.gov/data/pub/gimms/	5h
Clouds, Cloudiness	Aqua MODIS C6	https://ladsweb.modaps.eosdis.nasa.gov/api/v1/productPage/product=MYD06_L2	2d5
	CALIPSO	https://eosweb.larc.nasa.gov/project/calipso/calipso_table	2d5
	CERES MODIS	https://ceres.larc.nasa.gov/science_information.php?page=ModisCloudRetr	2d5
	CLARA-A2	https://climatedataguide.ucar.edu/climate-data/clara-a1-cloud-properties-surface-albedo-and-surface-radiation-products-based-avhrr	2d5
	CLOUD_CCI	www.esa-cloud-cci.org	2d5
	HIRS	www.ssec.wisc.edu/~donw/PAGE/CLIMATE.HTM	2d5
	MISR	https://l0dup05.larc.nasa.gov/L3Web/	2d5
	PATMOS-x/AVHRR	www.ncdc.noaa.gov/cdr/atmospheric/avhrr-cloud-properties-patmos-x	2d5
	PATMOS-x/MODIS C6	http://ladsweb.nascom.nasa.gov	2d5
	SatCORPS	No public archive	2d5
Coral Bleaching Heat Stress	Coral Reef Watch	https://coralreefwatch.noaa.gov/product/5km/v3.1/	SB3.1
Drought	scPSDI	https://crudata.uea.ac.uk/cru/data/drought/	2d9
	CRU TS 3.26	https://crudata.uea.ac.uk/cru/data/hrg/	2d9
Evaporation, Interception, Transpiration, Sublimation	GLEAM	www.gleam.eu/	2d10
FAPAR	MERIS	http://earth.esa.int/level3/meris-level3/	2h2
	MODIS-TIP	http://ladsweb.nascom.nasa.gov/	2h2
	SeaWiFS v 2010.0	http://fapar.jrc.ec.europa.eu/	2h2
Geopotential Height	ERA-Interim	www.ecmwf.int/en/research/climate-reanalysis/era-interim	6b
	NCEP/NCAR Reanalysis I: Pressure	www.esrl.noaa.gov/psd/data/gridded/data.ncep_reanalysis.pressure.html	4f2, 5b

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Glacier Mass or Volume	Cryosat-2	https://earth.esa.int/web/guest/missions/esa-operational-eo-missions/cryosat	5f
	Norwegian Water Resources and Energy Directorate	http://glacier.nve.no/Glacier/viewer/CI/en/nve	5f
	Randolph Glacier Inventory v3.2	www.glims.org/RGI/	5f
	World Glacier Monitoring Service	https://wgms.ch/latest-glacier-mass-balance-data/	2c3, 5f
Groundwater and terrestrial water storage	GRACE	https://gracefo.jpl.nasa.gov/data/grace-data/	2d7
Humidity, [Near] Surface	Dai	by email to adaï@ucar.edu	2d1
	ERA-Interim	www.ecmwf.int/en/forecasts/datasets/archive-datasets/reanalysis-datasets/era-interim	2d1
	HadCRUH	www.metoffice.gov.uk/hadobs/hadcruh	2d1
	HadISDH	www.metoffice.gov.uk/hadobs/hadisdh	2d1
	HOAPS	https://doi.org/10.5676/EUM_SAF_CM/HOAPS/V001	2d1
	JRA-55 Atmospheric Reanalysis	http://jra.kishou.go.jp/JRA-55/index_en.html	2d1
	MERRA-2	https://gmao.gsfc.nasa.gov/reanalysis/MERRA-2/	2d1
	NOCS 2.0	http://artefacts.ceda.ac.uk/badc_datadocs/nocs_flux/nocs_flux.html	2d1
Humidity, Upper Atmosphere	HIRS	www.ncdc.noaa.gov/cdr/fundamental/hirs-ch12-brightness-temperature	2d3
	NCEP/NCAR Reanalysis	www.esrl.noaa.gov/psd/data/gridded/data.ncep.reanalysis.html	4f4
	UTH	by email to Viju.John@eumetsat.int	2d3
Ice Sheet Characteristics	DMSP-SSMIS	http://nsidc.org/data/nsidc-0032	5e1, 6d
	GRACE	http://podaac.jpl.nasa.gov/datasetlist?ids=Platform&values=GRACE	5e4
	PROMICE (Greenland)	www.promice.dk/home.html	5e2
Lake Temperature	Advanced Along-Track Scanning Radiometer (AATSR)	https://earth.esa.int/web/guest/missions/esa-operational-eo-missions/envisat/instruments/aatsr	5e2
	ATSR	https://earth.esa.int/web/guest/missions/esa-operational-eo-missions/ers/instruments/atsr	5e2
	AVHRR	https://lta.cr.usgs.gov/AVHRR	5e2
	Globalakes	www.globolakes.ac.uk	2b2
	Lake Vättern (Sweden)	Vättern Water Protection Association	2b2
	Lake Zurich (Switzerland)	City of Zurich Water Supply and Amt für Abfall, Wasser, Energie und Luft of the Canton of Zurich	2b2
	Mondsee (Austria)	http://hydro.ooe.gv.at/#Startseite	2b2
	Neusiedler See (Austria)	http://wasser.bglg.gv.at/hydrographie/online-daten.html	2b2
	Polish Lakes	www.imgw.pl	2b2
	Wörther See (Austria)	https://info.ktn.gv.at/asp/hydro/daten/hydroportal/see_wt.asp	2b2

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Modes of Variability	Arctic Oscillation (AO)	www.cpc.ncep.noaa.gov/products/precip/CWlink/daily_ao_index/teleconnections.shtml	2e1
	Madden-Julian Oscillation (MJO) - Real-time Multivariate MJO	www.bom.gov.au/climate/mjo/graphics/rmm.74toRealtime.txt	4c
	Multivariate ENSO index (MEI)	www.esrl.noaa.gov/psd/enso/mei/	2b4, 3i
	Niño3.4 (detrended)	www.cpc.ncep.noaa.gov/products/analysis_monitoring/ensostuff/detrend.nino34.ascii.txt	3c
	North Atlantic Oscillation (NAO)	https://climatedataguide.ucar.edu/climate-data/hurrell-north-atlantic-oscillation-nao-index-station-based	2e1
	North Atlantic Oscillation - Summer (SNAO)	by request from Folland	2e1
	Oceanic Niño Index (ONI)	www.cpc.ncep.noaa.gov/products/analysis_monitoring/ensostuff/ensoyears.shtml	2d6, 4b
	Pacific Decadal Oscillation (PDO)	www.cpc.ncep.noaa.gov/products/GODAS/	2d6
	Quasi-biennial Oscillation (QBO)	multiple inputs	2b5
	Southern Annular Mode (SAM)	www.antarctica.ac.uk/met/gjma/sam.html	6c
	Southern Annular Mode (SAM, AAO)	www.cpc.ncep.noaa.gov/products/precip/CWlink/daily_ao_index/aa/aa.shtml	2e1, 6b
	Southern Oscillation Index (SOI)	ftp://ftp.bom.gov.au/anon/home/ncc/www/sco/soi/soiplaintext.html	2e1
	Southern Oscillation Index (EQ-SOI)	www.cpc.ncep.noaa.gov/data/indices	6c
Ocean Carbon	pCO ₂	www.socat.info	3j1
	pCO ₂	http://hahana.soest.hawaii.edu/hot/products/HOT_surface_CO2.txt	3j2
	pH	http://hahana.soest.hawaii.edu/hot/products/HOT_surface_CO2.txt	3j2
	Global Ocean Ship-Based Hydrographic Investigations Program	www.go-ship.org	3j3
	GLODAPv2	https://odv.awi.de/data/ocean/glodap-v2-bottle-data/	6f
	SOCCOM	https://socom.princeton.edu/content/float-data	6f, SB6.1
Ocean Circulation	Atlantic Meridional Overturning Circulation	www.rapid.ac.uk/rapidmoc/rapid_data/datadl.php	3h
	MOVE	www.oceansites.org/data/	3h
	XBT Data	www.aoml.noaa.gov/phod/hdenxbt/index.php	3h
Ocean Heat Content	CSIRO/ACE CRC/IMAS-UTAS estimate	www.cmar.csiro.au/sealevel/thermal_expansion_ocean_heat_timeseries.html	3c
	IAP/CAS	https://climatedataguide.ucar.edu/climate-data/ocean-temperature-analysis-and-heat-content-estimate-institute-atmospheric-physics	3c
	PMEL/JPL/JIMAR	http://oceans.pmel.noaa.gov	3c
	MRI/JMA	www.data.jma.go.jp/gmd/kaiyou/english/ohc/ohc_global_en.html	3c
	NCEP Ocean Reanalysis	http://apdrc.soest.hawaii.edu/datadoc/godas_pentad.php	4h

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Ocean Heat Content (continued)	NCEI	www.nodc.noaa.gov/OC5/3M_HEAT_CONTENT/	3c
	UK Met Office EN4.0.2	www.metoffice.gov.uk/hadobs/en4/download-en4-0-2-109.html	3c
Ocean Mass	NASA Gravity Recovery and Climate Experiment	https://grace.jpl.nasa.gov/data/get-data/monthly-mass-grids-ocean/	3f
Ocean Salinity	Aquarius V3.0	http://podaac.jpl.nasa.gov/aquarius	3d1
	Argo	www.argo.ucsd.edu , http://argo.jcommops.org	3c, 3d1, 6f
	Blended Analysis for Surface Salinity	ftp://ftp.cpc.ncep.noaa.gov/precip/BASS	3d1, 3d2
	CARICOOS Underwater Gliders	www.aoml.noaa.gov/phod/goos/gliders/index.php	4h
	World Ocean Atlas 2013	www.nodc.noaa.gov/OC5/woa13/	3d1, 3d2
Outgoing Longwave Radiation	CERES FLASHFlux Project	http://flashflux.larc.nasa.gov	3e1, 3e4
	Daily OLR	www.ncdc.noaa.gov/cdr/atmospheric/outgoing-longwave-radiation-daily	4b2, 4c, 4f3, 4f6
Ozone, Total Column and Stratospheric	Bodeker Scientific	www.bodekerscientific.com/data/total-column-ozone	5j
	CCMI REFC2	www2.acom.ucar.edu/gcm/ccmi-output	2g4
	GOME/SCIAMACHY/GOME2 (GSG) Merged Total Ozone	www.iup.uni-bremen.de/gome/wfdoas/	2g4
	GOME/SCIAMACHY/GOME2 (GTO) Merged Total Ozone	www.esa-ozone-cci.org	2g4
	GOZCARDS ozone profiles	https://gozcards.jpl.nasa.gov/info.php	2g4
	Aura OMI/MLS	https://disc.sci.gsfc.nasa.gov/Aura/data-holdings/MLS ftp://toms.gsfc.nasa.gov/pub/omi/data/ozone/ (for years 2013-2017) https://disc.gsfc.nasa.gov/datasets/OMTO3d_003/summary https://disc.gsfc.nasa.gov/datasets/OMUVBd_003/summary	5j, 6g
	Multi Sensor Reanalysis (MSR-2) of total ozone	www.temis.nl	2g4
	NASA BUV/SBUV v8.6 (MOD v8.6) Merged Ozone	http://acdb-ext.gsfc.nasa.gov/Data_services/merged	2g4
	NOAA BUV/SBUV v8.6 (MOD v8.6) Merged Ozone	ftp://ftp.cpc.ncep.noaa.gov/SBUV_CDR	2g4
	Ozone Mapping & Profiler Suite (OMPS)	https://ozoneaq.gsfc.nasa.gov/omps/	6g
	Ozonesonde	www.esrl.noaa.gov/gmd/dv/spo_oz	6g
	SAGE II/OSIRIS	dataset linked to Bourassa et al. (2014)	2g4
	SWOOSH	www.esrl.noaa.gov/csd/groups/csd8/swoosh/	2g4
	WOUDC Ground-based Ozone	https://woudc.org/archive/Projects-Campaigns/ZonalMeans/	2g4
Ozone, Tropospheric	Aura OMI/MLS	http://acd-ext.gsfc.nasa.gov/Data_services/cloud_slice/new_data.html	2g6
	NOAA Observatory Data	ftp://aftp.cmdl.noaa.gov/data/ozwv/SurfaceOzone/	2g6
	Tropospheric Ozone Assessment Report	https://doi.pangaea.de/10.1594/PANGAEA.876108	SB2.3

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Permafrost	Active Layer Thickness	www2.gwu.edu/~calm/	5g2
	Global Terrestrial Network for Permafrost (GTN-P)	http://gtnp.arcticportal.org	2c1
	Permafrost Temperature	http://permafrost.gi.alaska.edu/sites_map	5g1
	Permafrost Temperature at French sites	permafrance.osug.fr	2c1
	Permafrost Temperature at Norwegian sites	www.tspnorway.com www.met.no	2c1, 5g1
	Permafrost Temperature at Swedish sites	https://bolin.su.se/	5g1
	Permafrost Temperature at Swiss sites	www.permos.ch	2c1
Phytoplankton, Ocean Color	MODIS-Aqua R2018.0	http://oceancolor.gsfc.nasa.gov/cms/reprocessing/	3i
	SeaWiFS R2018.0	http://oceancolor.gsfc.nasa.gov/cms/reprocessing/	3i
	VIIRS R2018.0	http://oceancolor.gsfc.nasa.gov/cms/reprocessing/	3i
Precipitation	CMORPH	www.cpc.ncep.noaa.gov/products/janowiak/cmorph_description.html	4d1, 4d2
	GHCN	www.ncdc.noaa.gov/temp-and-precip/ghcn-gridded-products/precipitation	2d4
	GHCNDEX	www.climdex.org/datasets.html	SB2.1
	GPCP v2.3	http://precip.gsfc.nasa.gov	2d4, 4e, 4h
	GPCC	www.dwd.de/EN/ourservices/gpcc/gpcc.html	2d4, SB2.1
Precipitation (net), Freshwater Flux	JRA-55 Atmospheric Reanalysis	http://jra.kishou.go.jp/JRA-55/index_en.html	6c
	GPCPv23, OAFflux	http://precip.gsfc.nasa.gov , http://oafux.who.edu	3e2, 3e4
Pressure, Sea Level or Near-Surface	Antarctic Meteorological Research Center (AMRC) AWS	http://amrc.ssec.wisc.edu/data	6b
	ERA-Interim	www.ecmwf.int/en/research/climate-reanalysis/era-interim	6b
	HadSLP2r	www.metoffice.gov.uk/hadobs/hadslp2/	2e1
	JRA-55 Atmospheric Reanalysis	http://jra.kishou.go.jp/JRA-55/index_en.html	6c
	NCEP/NCAR Reanalysis	www.esrl.noaa.gov/psd/data/gridded/data.ncep.reanalysis.html	5b
	READER	https://legacy.bas.ac.uk/met/READER/	6c
River Discharge	ELSE	No public archive	2d6
Sea Ice Age	EASE-Grid v3	http://nsidc.org/data/nsidc-0611/	5d2
Sea Ice Concentration	AMSR2 Daily	https://seaice.uni-bremen.de	SB6.1
	Near-Real-Time DMSP SSM/I-SSMIS Daily Polar Gridded	http://nsidc.org/data/nsidc-0081.html	6e
	Nimbus-7 SMMR and DMSP SSM/I (Bootstrap)	http://nsidc.org/data/nsidc-0079.html	6e
	Nimbus-7 SMMR and DMST SSM/I (NasaTeam)	http://nsidc.org/data/NSIDC-0051	6e
Sea Ice Extent	Nimbus-7 SMMR and DMSP SSM/I (Bootstrap)	http://nsidc.org/data/seaice_index/	5c,5d1

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Sea Ice Freeboard/ Thickness	ESA CryoSat-2	http://data.meereisportal.de/	5d3
	TIFAX	https://epic.awi.de/45409/1/CampaignReport_TIFAX2017.pdf	5d3
Sea Level/Sea Surface Height	NOAA/NESDIS/STAR	www.star.nesdis.noaa.gov/sod/lisa/SeaLevelRise/LSA_SLR_timeseries.php	3f
	Ssalto/Duacs Multimission Altimeter Products	http://marine.copernicus.eu/services-portfolio/access-to-products/?option=com_csw&view=details&product_id=SEALEVEL_GLO_PHY_L4_NRT_OBSERVATIONS_008_046	3f, SB3.2
	Tide Gauge	http://uhslc.soest.hawaii.edu/	3f
	Tide Gauge	https://tidesandcurrents.noaa.gov/noaatidepredictions/NOAATidesFacade.jsp?Stationid=8722670	3h
Sea Surface Temperature	ERSSTv4	www.ncdc.noaa.gov/data-access/marineocean-data/extended-reconstructed-sea-surface-temperature-ersst-v4	4f2, 4f4
	ERSST v5	https://doi.org/10.7289/V5T72FNM	3b
	HadSST3	www.metoffice.gov.uk/hadobs/hadsst3	2b1, 3b
	NOAA Optimum Interpolation SST (OISST) v2	http://apdr.c.soest.hawaii.edu/dods/public_data/NOAA_SST/OISST/monthly	4f
	NOAA Optimum Interpolation SST (OISST) v2	www.ncei.noaa.gov/data/sea-surface-temperature-optimum-interpolation/access/	3b, 4b1, 4d2, 4f1, 4f3, 4f6, 4h, 6e
	NOAA Optimum Interpolation SST (OISST) v2	http://nsidc.org/data/g02135	5c
Sea Subsurface Temperature	Argo	http://sio-argo.ucsd.edu/RG_Climateology.html , http://argo.jcommops.org	3c, 6f
	CARICOOS Underwater Gliders	www.aoml.noaa.gov/phod/goos/gliders/index.php	4h
	NCEP Ocean Reanalysis	www.cpc.ncep.noaa.gov/products/GODAS/	4b1, 4c, 4h
Snow Cover	NOAA Interactive Multi-sensor Snow and Ice Mapping System (Snow Cover Duration)	www.natice.noaa.gov/ims/index.html	5i
	NOAA Snow Chart Data Record (Snow Cover Extent)	www.snowcover.org	2c2, 5i
	NH Snow Water Equivalent Ensemble	http://nsidc.org/data/NSIDC-0668	5i
Snow Depth	Canadian Meteorological Centre Snow Depth Analysis		5i
	IceBridge Flights	ftp://ftp.star.nesdis.noaa.gov/pub/socd/lisa/	5d3
	in situ snow stakes	https://data.npolar.no/dataset/3099ea95-c3cd-4a8b-af5d-73750e46d791	5d3
	Magnaprobe	https://data.npolar.no/dataset/3d72756d-788b-4c49-b0cc-8a345c091020	5d3
Soil Moisture	ESA CCI SM	www.esa-soilmoisture-cci.org/index.php	2d8

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Surface Current	Brazil-Malvina Region Confluence Region	www.aoml.noaa.gov/phod/altimetry/cvar/mal/BM_anm.php	3g
	Long Term Time Series of Surface Currents: Agulhas Current	www.aoml.noaa.gov/phod/altimetry/cvar/agu/	3g
	Long Term Time Series of Surface Currents: North Brazil Current	www.aoml.noaa.gov/phod/altimetry/cvar/nbc	3g
	Ocean Surface Current Analysis - Real time (OSCAR)	www.oscar.noaa.gov	3g
	Yucatan Current	www.aoml.noaa.gov/phod/altimetry/cvar/yuc/transport.php	3g
Temperature, [Near] Surface	Antarctic Meteorological Research Center (AMRC) AWS	http://amrc.ssec.wisc.edu/data	6b
	CRUTEM4	www.metoffice.gov.uk/hadobs/crutem4 http://www.cru.uea.ac.uk/cru/data/temperature	2b1, 5b
	Danish Meteorological Institute	http://research.dmi.dk/research/research-topics/climate/	5e6
	ERA-Interim	www.ecmwf.int/en/forecasts/datasets/archive-datasets/reanalysis-datasets/era-interim	2b1, 6b
	GHCNDEX	www.climdex.org/datasets.html	2b3
	HadCRUT4 Global Temperature	www.metoffice.gov.uk/hadobs/hadcrut4/	2b1
	JMA Global Temperature	https://ds.data.jma.go.jp/tcc/tcc/products/gwp/temp/map/download.html	2b1
	JRA-55 Atmospheric Reanalysis	http://jra.kishou.go.jp/JRA-55/index_en.html	2b1
	MERRA-2	http://gmao.gsfc.nasa.gov/reanalysis/MERRA-2/	2b1
	NASA/GISS Global Temperature	https://data.giss.nasa.gov/gistemp/	2b1, 2b2
	NCEP/NCAR Reanalysis	www.esrl.noaa.gov/psd/data/gridded/data.ncep.reanalysis.html	5b
	NOAAGlobalTemp	www.ncdc.noaa.gov/data-access/marineocean-data/noaa-global-surface-temperature-noaaglobaltemp	2b1
	READER	https://legacy.bas.ac.uk/met/READER/	6c

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Temperature, Upper Atmosphere	CMIP5	https://esgf-node.llnl.gov/search/cmip5/	2b5
	ERA-Interim	www.ecmwf.int/en/research/climate-reanalysis/era-interim	2b4, 2b5, 6b
	JRA-55 Atmospheric Reanalysis	http://jra.kishou.go.jp/JRA-55/index_en.html	2b4, 2b5
	MERRA-2	http://gmao.gsfc.nasa.gov/reanalysis/MERRA-2/	2b4, 2b5, 2g5
	RAOBCORE, RICH	www.univie.ac.at/theoret-met/research/raobcore	2b4, 2b5
	RATPAC A2	www.ncdc.noaa.gov/data-access/weather-balloon/radiosonde-atmospheric-temperature-products-accessing-climate/ratpac-a	2b4, 2b5
	RSS	www.remss.com	2b4, 2b5
	NCEP/NCAR Reanalysis	www.esrl.noaa.gov/psd/data/gridded/data.ncep.reanalysis.html	5b
	NOAA/NESDIS/STAR	www.star.nesdis.noaa.gov/smcd/emb/mscat/	2b5
	Ozonesonde	www.esrl.noaa.gov/gmd/dv/spo_oz	6g
	SSU-3		2b5
	UAH MSU	http://vortex.nsstc.uah.edu/public/msu	2b4, 2b5
	University of New South Wales	http://web.science.unsw.edu.au/~stevensherwood/radproj/index.html	2b4, 2b5
TOA Earth Radiation Budget	CERES FLASHFlux	https://ceres-tool.larc.nasa.gov/ord-tool/jsp/EBAF4Selection.jsp	2f1
	CERES EBAF Ed4.0	https://ceres-tool.larc.nasa.gov/ord-tool/jsp/EBAF4Selection.jsp	2f1
Total Solar Irradiance	SORCE/TIM	http://science.nasa.gov/missions/sorce/	2f1
Trace Gases	Atmospheric Greenhouse Gas Index (AGGI)	www.esrl.noaa.gov/gmd/aggi	2g1
	Carbon Dioxide (CO ₂)	www.esrl.noaa.gov/gmd/dv/iadv	2g1
	Carbon Dioxide (CO ₂)	ftp://aftp.cmdl.noaa.gov/products/trends/co2/co2_mm_mlo.txt	3j2
	Carbon Monoxide (CO)	https://atmosphere.copernicus.eu/	2g7
	Chlorine Monoxide (ClO) - Aura MLS	http://mls.jpl.nasa.gov/products/clo_product.php	6g
	Halocarbons (CFCs, HFCs, HCFCs)	www.esrl.noaa.gov/gmd/hats/data.html	2g1
	Hydrogen Chloride (HCl) - Aura MLS	http://disc.sci.gsfc.nasa.gov/datacollection/ML2HCL_V004.html	2g1
	Methane	www.esrl.noaa.gov/gmd/dv/iadv	2g1
	Nitrous Oxide	www.esrl.noaa.gov/gmd/hats/combined/N2O.html	2g1
	Ozone-Depleting Gas Index (ODGI)	www.esrl.noaa.gov/gmd/odgi	2g2
	Perfluorocarbons	http://agage.eas.gatech.edu	2g1
	Sulfur Hexafluoride	www.esrl.noaa.gov/gmd/hats/combined/SF6.html	2g1

General Variable or Phenomenon	Specific Dataset or Variable	Source	Section
Tropical Cyclone Data	HURDAT2	www.aoml.noaa.gov/hrd/hurdat/Data_Storm.html	4f2
	International Best Track Archive for Climate Stewardship (IBTrACS)	www.ncdc.noaa.gov/ibtracs/	4f1, 4f3, 4f6, 4f7
	JTWC Best-track Dataset (2011 preliminary)	www.usno.navy.mil/NOOC/nmfc-ph/RSS/jtwc/best_tracks	4f4, 4f5
	RSMC-Tokyo, JMA best-track data	www.jma.go.jp/jma/eng/jma-center/rsmc-hp-pub-eg/besttrack.html	4f4
	Southwest Pacific Enhanced Archive of Tropical Cyclones (SPEARTC)	http://apdrc.soest.hawaii.edu/projects/speartc	4f8
UV Radiation Data	Canadian sites	ftp://exp-studies.tor.ec.gc.ca/pub/uvdata/Preliminary/MSC	5j
	Greenland site	http://uv.biospherical.com/Version2/data.asp	5j
	Finnish sites	http://litdb.fmi.fi/soundingst_uvradiation.php , http://uv.fmi.fi/uvdb/	5j
	Norwegian sites	https://github.com/uvnrpa/Minute_Data	5j
Water Vapor, Stratosphere	Frost Hygrometer Data (Boulder, Hilo, Lauder)	ftp://afpt.cmdl.noaa.gov/data/ozwv/WaterVapor	2g5
	Frost Point Hygrometer Data (San Jose)	http://physics.valpo.edu/ozone/ticosonde.html	2g5
	NASA Aura Microwave Limb Sounder	https://mls.jpl.nasa.gov/products/h2o_product.php	2g5
Water Vapor, Total Column	COSMIC GPS-RO	http://cdaac-www.cosmic.ucar.edu/cdaac/products.html	2d2
	ERA-Interim	www.ecmwf.int/en/research/climate-reanalysis/era-interim	2d2
	GNSS Ground-Based Total Column Water Vapor	https://rda.ucar.edu/datasets/ds721.1/	2d2
	JRA-55 Atmospheric Reanalysis	http://jra.kishou.go.jp/JRA-55/index_en.html	2d2
	MERRA-2	http://gmao.gsfc.nasa.gov/reanalysis/MERRA-2/	2d2
	RSS SSM/I -AMSR-E Ocean Total Column Water Vapor	www.remss.com	2d2
Wind, [Near] Surface	Australian (McVicar)	http://doi.org/10.4225/08/56A85491DDED2	2e2
	ERA-Interim	www.ecmwf.int/en/research/climate-reanalysis/era-interim	2e2
	HadISD2	www.metoffice.gov.uk/hadobs/hadisd/	2e2
	JRA-55 Atmospheric Reanalysis	http://jra.kishou.go.jp/JRA-55/index_en.html	2e2, 4h
	MERRA-2	http://gmao.gsfc.nasa.gov/reanalysis/MERRA-2/	2e2
	RSS SSM/I Ocean Winds	www.remss.com/measurements/wind	2e2

General Variable or Phenomenon	Specific Dataset or Variable	Source	Section
Wind, Upper Atmosphere	CERA-20C	www.ecmwf.int/en/forecasts/datasets/archive-datasets/reanalysis-datasets/cera-20c	2e3
	Climate Forecast System Reanalysis	www.ncdc.noaa.gov/data-access/model-data/model-datasets/climate-forecast-system-version2-cfsv2	4c, 4f3, 4f6
	ERA-Interim	www.ecmwf.int/en/research/climate-reanalysis/era-interim	2e3, 6b, 4e
	GRASP	https://doi.pangaea.de/10.1594/PANGAEA.823617	2e3
	JRA-55 Atmospheric Reanalysis	http://jra.kishou.go.jp/JRA-55/index_en.html	2e3, 4h
	MERRA-2	http://gmao.gsfc.nasa.gov/reanalysis/MERRA-2/	2e3
	NCEP/NCAR Reanalysis	www.esrl.noaa.gov/psd/data/gridded/data.ncep.reanalysis.html	4b2, 4c, 4f2, 4f4, 5g