November 2017 Gridded Data Inventory

The gridded data sets listed below are available for no additional charge to SuperPack® -Premium users on a reasonable request basis. These data sets can be accessed directly by users of the Speedwell Weather System via API. We are continuously adding gridded data and this list will therefore be updated on a regular basis.

Please contact us for further information relating to the provision of Settlement Data based on gridded data.

* published as of November 9, 2017

Speedwell Weather SuperPack®

Speedwell Processed Datasets

Data Element Name	Data Provider Name	Brief description	Region / Resolution	Earliest Data	Daily/ Hourly?	Latest Data *	Measure Units	Update frequency
Rain	ARC2	Africa region rainfall climatology using 3 hourly infrared satellite imagery (EUMETSAT) and hourly/24 hour rainfall totals from WMO reporting rain gauges (GTS).	Africa	02/Jan/1983	Daily	06/Nov/2017	mm	3 days
Rain	Bureau of Meteorology (Australia)	Reanalysis of quality controlled surface rainfall observations, projected to a regular grid. Series is revised over time as further improvements in data quality applied.	Australia: 5km x 5km	01/Jan/1900	Daily	07/Nov/2017	mm	2 days
TMax	Bureau of Meteorology (Australia)	Daily TMax based on reanalysis of quality controlled surface maximum temperature observations, projected to a regular grid with topographic correction for the estimated temperatures.	Australia: 5km x 5km	01/Jan/1911	Daily	07/Nov/2017	C	2 days
TMin	Bureau of Meteorology (Australia)	Daily TMin based on reanalysis of quality controlled surface minimum temperature observations, projected to a regular grid with topographic correction for the estimated temperatures.	Australia: 5km x 5km	01/Jan/1911	Daily	07/Nov/2017	C	2 days
Solar Exposure	Bureau of Meteorology (Australia)	A model generated history of downward irradiance at the ground. Daily values based on underlying hourly data derived from satellite data and hourly cloud albedo.	Australia: 5km x 5km	01/Jan/1990	Daily	07/Nov/2017	MJ/m2	2 days
Rain	CHIRPS version 2.0	A global rainfall estimate, derived from satellite imagery using algorithms to estimate rainfall at the surface based upon cloud top temperatures.	Global	01/Jan/1981	Daily	07/Nov/2017	mm	2 days
Rain	DWD - Regnie project	German gridded daily rain.	Germany: 1km x 1km	01/Jan/1931	Daily	30/May/2017	mm	2 days
2m Dew Point Temperature	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	K	3 months
Mean Sea Level Pressure	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	Pa	3 months
Mean Wave Direction	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	degrees	3 months
Sea Surface Temperature	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	K	3 months
Significant Wave Height & Swell	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	m	3 months
Snow Depth	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	m	3 months
Soil Temperature Layer 1	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	K	3 months
Soil Temperature Layer 2	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	K	3 months
Soil Temperature Layer 3	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	K	3 months
Soil Temperature Layer 4	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	K	3 months
Surface Pressure	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	Pa	3 months
Surface solar radiation downwards	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	J m**-2	3 months
Temperature 2m	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	K	3 months
TMax	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	K	3 months
TMin	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	K	3 months
Total Precipitation	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	m	3 months
Volumetric Soil Water Layer 1	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	m**3 m**-3	3 months
Volumetric Soil Water Layer 2	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	m**3 m**-3	3 months
Volumetric Soil Water Layer 3	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	m**3 m**-3	3 months
Volumetric Soil Water Layer 4	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	m**3 m**-3	3 months
Wind Direction	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	degrees	3 months
Wind Speed 10m	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	m/s	3 months
Wind u +10m	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	m/s	3 months
Wind v +10m	ERA Interim	The data assimilation system used to produce ERA-Interim is based on a 2006 release of the IFS (Cy31r2). The system includes a 4-dimensional variational analysis (4D-Var) with a 12-hour analysis window.	Global: 0.75 * 0.75 degree	01/Jan/1979	Hourly	31/Aug/2017	m/s	3 months
MODIS Vegetation Indices (NDVI)	MODIS - MOD13C1	Global 16-day composite of the MODIS Enhanced Vegetation Index (EVI) included in the MOD13C1 product	Global: 5km x 5km	18/Feb/2000	16days	30/Sep/2017	NDVI	1 month
Sea Surface Temperature	UK Met Office	Global SST & Sea Ice Analysis, L4 OSTIA, 0.05 deg daily	Global: 0.05 x 0.05 deg	01/Jan/2007	daily	07/Nov/2017	K	2 days

Speedwell Derived Datasets

Data Element Name	Data Provider Name	Brief description	Region / Resolution	Earliest Data	Daily/ Hourly?	Latest Data	Measure Units	Update frequency
Wind 10 m, 50 m and 100 m	Speedwell Weather (based on MERRA2)	A proprietary Speedwell derived gridded data set giving wind at a heights of 10, 50 and 100 m	South America: 5km x 5km United States: 5km x 5km	01/Jan/1980	Daily	30/Sep/2017	m/s	1.5 months
Wind 10 m	Speedwell Weather (based on MERRA2)	A proprietary Speedwell derived gridded data set giving wind at 10 m.	Europe: 5km x 5km	01/Jan/1980	Daily	30/Sep/2017	m/s	1.5 months
T24 Ave	Speedwell Weather (based on MERRA2)	A proprietary Speedwell derived gridded data set giving TAve24 (Tmean) (Average of 24 hourly spot temperature readings) at 2m.	Europe: 5km x 5km South America: 5km x 5km	01/Jan/1980	Daily	30/Sep/2017	° C	1.5 months
TMax	Speedwell Weather (based on MERRA2)	A proprietary Speedwell derived gridded data set giving TMax at 2m.	Europe: 5km x 5km South America: 5km x 5km	01/Jan/1980	Daily	30/Sep/2017	° C	1.5 months
TMin	Speedwell Weather (based on MERRA2)	A proprietary Speedwell derived gridded data set giving TMin at 2m.	Europe: 5km x 5km South America: 5km x 5km	01/Jan/1980	Daily	30/Sep/2017	° C	1.5 months
Precipitation	Speedwell Weather (based on MERRA2)	A proprietary Speedwell derived gridded data set giving accumulated precipitation.	Europe: 5km x 5km South America: 5km x 5km	01/Jan/1980	Daily	30/Sep/2017	mm	1.5 months
Wind 10 m, 50 m	Speedwell Weather (based on MERRA2)	A proprietary Speedwell derived gridded data set giving wind at 10 and 50m.	South America: 5km x 5km	01/Jan/1980	Daily	30/Sep/2017	m/s	1.5 months
Solar Radiation Surface Downwards	Speedwell Weather (based on MERRA2)	A proprietary Speedwell derived gridded data set providing surface solar radiation downwards (short wave).	South America: 5km x 5km	01/Jan/1980	Daily	30/Sep/2017	J/cm2	1.5 months
Wind Speed 80m	Speedwell Weather (based on ERA Interim)	Global proprietary Speedwell derived gridded data set providing wind v at 80m.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1979	Daily	31/Aug/2017	m/s	3 months
Wind Direction 80 m	Speedwell Weather (based on ERA Interim)	Global proprietary Speedwell derived gridded data set providing wind v at 80m.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1979	Daily	31/Aug/2017	degrees	3 months
Wind u +80 m	Speedwell Weather (based on ERA Interim)	Global proprietary Speedwell derived gridded data set providing wind v at 80m.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1979	Daily	31/Aug/2017	m/s	3 months
Wind v +80 m	Speedwell Weather (based on ERA Interim)	Global proprietary Speedwell derived gridded data set providing wind v at 80m.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1979	Daily	31/Aug/2017	m/s	3 months
Wave Height	Speedwell Weather (based on ERA Interim)	A proprietary Speedwell derived gridded data set providing wave height data.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1979	6-hourly	31/Aug/2017	m	3 months
Wave direction	Speedwell Weather (based on ERA Interim)	A proprietary Speedwell derived gridded data set providing wave direction data.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1979	6-hourly	31/Aug/2017	degrees	3 months
Wave period	Speedwell Weather (based on ERA Interim)	A proprietary Speedwell derived gridded data set providing wave period data.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1979	6-hourly	31/Aug/2017	s	3 months
Solar Radiation Surface Downwards	Speedwell Weather (based on ERA Interim)	A proprietary Speedwell derived gridded data set providing surface solar radiation downwards (short wave).	Asia: 5km x 5km Europe: 5km x 5km United States: 5km x 5km	01/Jan/1979	Daily	31/Aug/2017	J/cm2	3 months
Wind 10 m	Speedwell Weather (based on ERA Interim)	A proprietary Speedwell derived gridded data set giving wind at 10m.	Asia: 5km x 5km	01/Jan/1980	Daily	31/Aug/2017	m/s	3 months
T24 Ave	Speedwell Weather (based on ERA Interim)	A proprietary Speedwell derived gridded data set giving TAve24 (Tmean) (Average of 24 hourly spot temperature readings) at 2m.	Asia: 5km x 5km	01/Jan/1980	Daily	31/Aug/2017	° C	3 months
TMax	Speedwell Weather (based on ERA Interim)	A proprietary Speedwell derived gridded data set giving TMax at 2m.	Asia: 5km x 5km	01/Jan/1980	Daily	31/Aug/2017	° C	3 months
TMin	Speedwell Weather (based on ERA Interim)	A proprietary Speedwell derived gridded data set giving TMin at 2m.	Asia: 5km x 5km	01/Jan/1980	Daily	31/Aug/2017	° C	3 months
Precipitation	Speedwell Weather (based on ERA Interim)	A proprietary Speedwell derived gridded data set giving accumulated precipitation.	Asia: 5km x 5km	01/Jan/1980	Daily	31/Aug/2017	mm	3 months

November 2017 Gridded Data Inventory - Coming Soon

Speedwell Weather SuperPack®

The gridded data sets listed below are available for no additional charge to SuperPack®-Premium users on a reasonable request basis. These data sets can be accessed directly by users of the Speedwell Weather System via API. We are continuously adding gridded data and this list will therefore be updated on a regular basis.

Please contact us for further information relating to the provision of Settlement Data based on gridded data.

Speedwell Processed Datasets

Data Element Name	Data Provider Name	Brief description	Region / Resolution	Earliest Data	Daily/ Hourly?	Latest Data	Measure Units	Update frequency
Rain	NOAA	CPC Unified Gauge-Based Analysis of Global Daily Precipitation Project.	Global: 0.5 x 0.5 degrees	01/Jan/1979	Daily	07/Nov/2017	mm	2 days
2m Dew Point Temperature	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		K	tbc
Mean Sea Level Pressure	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		Pa	tbc
Mean Wave Direction	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		degrees	tbc
Sea Surface Temperature	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		K	tbc
Significant Wave Height & Swell	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		m	tbc
Snow Depth	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		m	tbc
Soil Temperature Layer 1	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		K	tbc
Soil Temperature Layer 2	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		K	tbc
Soil Temperature Layer 3	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		K	tbc
Soil Temperature Layer 4	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		K	tbc
Surface Pressure	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		Pa	tbc
Surface solar radiation downwards	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		J m**-2	tbc
Temperature 2m	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		K	tbc
TMax	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		K	tbc
TMin	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		K	tbc
Total Precipitation	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		m	tbc
Volumetric Soil Water Layer 1	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		m**3 m**-3	tbc
Volumetric Soil Water Layer 2	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		m**3 m**-3	tbc
Volumetric Soil Water Layer 3	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		m**3 m**-3	tbc
Volumetric Soil Water Layer 4	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		m**3 m**-3	tbc
Wind Direction (10m)	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		degrees	tbc
Wind Speed 10m	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		m/s	tbc
Wind u +10m	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		m/s	tbc
Wind v +10m	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		m/s	tbc
Wind Direction 100m	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		degrees	tbc
Wind Speed 100m	ERA 5	ERA5 is produced using 4DVar data assimilation in CY41R2 of ECMWF's Integrated Forecast System (IFS), with 137 hybrid sigma/pressure (model) levels in the vertical, with the top level at 0.01 hPa.	Global: 0.25 * 0.25 degree	01/Jan/1950	Hourly		m/s	tbc

Speedwell Derived Datasets

Data Element Name	Data Provider Name	Brief description	Region / Resolution	Earliest Data	Daily/ Hourly?	Latest Data	Measure Units	Update frequency
Wind Speed 80m	Speedwell Weather (based on ERA 5)	Global proprietary Speedwell derived gridded data set providing wind v at 80m.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1950	Daily		m/s	tbc
Wind Direction 80 m	Speedwell Weather (based on ERA 5)	Global proprietary Speedwell derived gridded data set providing wind v at 80m.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1950	Daily		degrees	tbc
Wave Height	Speedwell Weather (based on ERA 5)	A proprietary Speedwell derived gridded data set providing wave height data.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1950	6-hourly		m	tbc
Wave direction	Speedwell Weather (based on ERA 5)	A proprietary Speedwell derived gridded data set providing wave direction data.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1950	6-hourly		degrees	tbc
Wave period	Speedwell Weather (based on ERA 5)	A proprietary Speedwell derived gridded data set providing wave period data.	Europe: 5km x 5km Global: 16km x 16km	01/Jan/1950	6-hourly		s	tbc
Solar Radiation Surface Downwards	Speedwell Weather (based on ERA 5)	A proprietary Speedwell derived gridded data set providing surface solar radiation downwards (short wave).	Asia: 5km x 5km Europe: 5km x 5km United States: 5km x 5km	01/Jan/1950	Daily		J/cm2	tbc
Wind 10 m	Speedwell Weather (based on ERA 5)	A proprietary Speedwell derived gridded data set giving wind at 10m.	Asia: 5km x 5km	01/Jan/1950	Daily		m/s	tbc
T24 Ave	Speedwell Weather (based on ERA 5)	A proprietary Speedwell derived gridded data set giving TAve24 (Tmean) (Average of 24 hourly spot temperature readings) at 2m.	Asia: 5km x 5km	01/Jan/1950	Daily		° C	tbc
TMax	Speedwell Weather (based on ERA 5)	A proprietary Speedwell derived gridded data set giving TMax at 2m.	Asia: 5km x 5km	01/Jan/1950	Daily		° C	tbc
TMin	Speedwell Weather (based on ERA 5)	A proprietary Speedwell derived gridded data set giving TMin at 2m.	Asia: 5km x 5km	01/Jan/1950	Daily		° C	tbc
Precipitation	Speedwell Weather (based on ERA 5)	A proprietary Speedwell derived gridded data set giving accumulated precipitation.	Asia: 5km x 5km	01/Jan/1950	Daily		mm	tbc