



SuperPack®-Light

SuperPack-Light is for sophisticated weather data users who require large volumes of high quality world wide data but who do not need the full-service provided under the full SuperPack subscription.

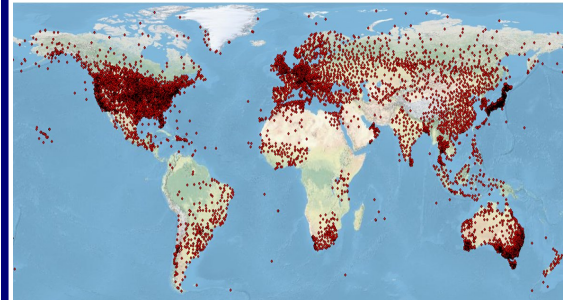
- SuperPack-Light is a corporate-wide subscription providing access to over 1,500 user-specified data sets chosen from over 21,000 key world-wide data sets at zero marginal cost. Our archives include over 10,000 cleaned historical data sets and/or feeds from around the world.
- SuperPack-Light includes access to over 250 world wide agri-baskets and over 150 population weighted energy consumption baskets used for modelling energy consumption.
- SuperPack-Light dramatically simplifies the administration of your data needs. A single contract covers all users group-wide for all data.
- SuperPack-Light includes access to Speedwell suite of web-delivered data analysis and visualization tools including Data Viewer, Weather Index Cone, Monthly / Weekly value calculator, Statistics Extractor, Index Calculator, Actuals Vs. Climatology, Analogue Years...
- SuperPack-Light is a “living product” that is constantly growing and being updated. As additional data sets are sourced and processed they are added to the online inventory and made available to subscribers.
- Used by insurance, agri and energy-traders, funds, banks and energy companies world-wide

Data Sources

Speedwell has direct supply agreements with many National Meteorological Services worldwide allowing us to supply official climate data for countries.

Note: Due to data quality considerations, OUR DATA IS NOT DERIVED FROM THE US “GSOD” DATA BASE..nor is our data simply a facsimile of the ISH archive as is the case with some other providers.

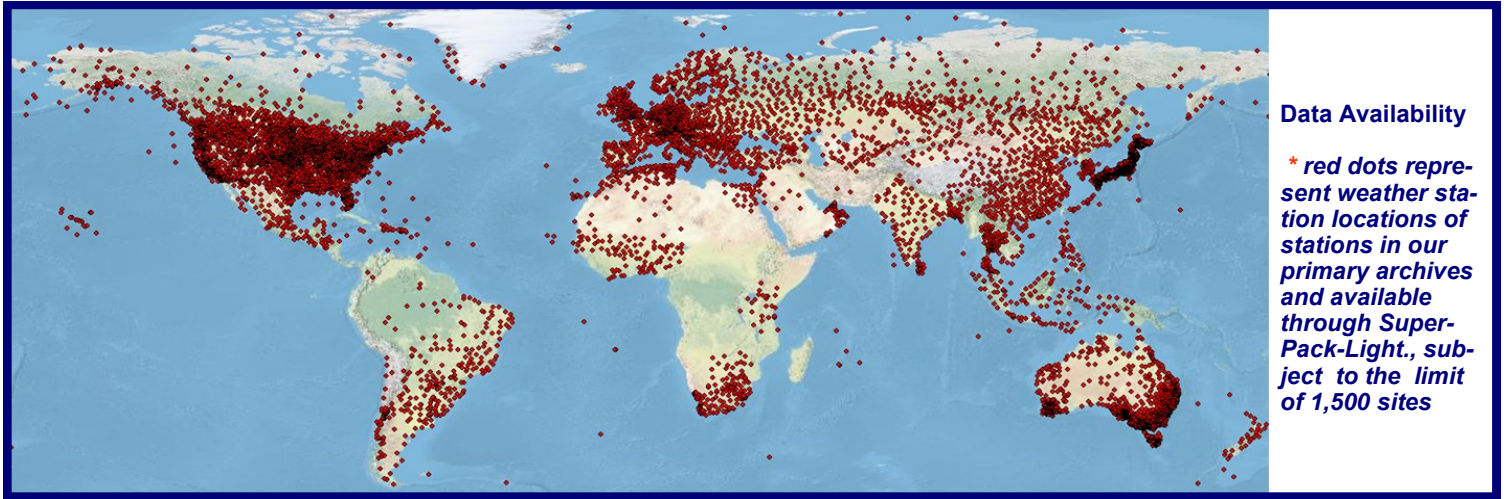
Global Data Coverage



Albania	Greenland	Paraguay
Algeria	Guatemala	Philippines
Antarctica	Honduras	Poland
Antigua	Hong Kong	Portugal
Argentina	Hungary	Puerto Rico
Armenia	India	Romania
Aruba	Indonesia	Russia
Australia	Iran	Saudi Ar.
Austria	Ireland	Senegal
Bangladesh	Israel	Serbia
Barbados	Italy	Singapore
Belarus	Jamaica	Slovakia
Belgium	Japan	Slovenia
Belize	Kazakhstan	S. Africa
Benin	Kenya	Spain
Bolivia	Korea S.	Sri Lanka
Bosnia	Latvia	Syria
Botswana	Lebanon	Sweden
Brazil	Liechtenst.	Switz.
Bulgaria	Lithuania	Taiwan
Burkina Faso	Lux.	Tajikistan
Canada	Macedonia	Tanzania
Cape Verde	Malaysia	Thailand
Chile	Maldives	Togo
China	Mali	Trinidad
Columbia	Malta	Tunisia
Croatia	Mauritania	Turkey
Cyprus	Mauritius	Turkmenist.
Czech R.	Mexico	UK
Denmark	Moldova	Ukraine
Dominican	Mongolia	Uruguay
Egypt	Montenegro	USA
Estonia	Morocco	Uzbekistan
Ethiopia	Myanmar	Vietnam
Faroe Isles	Netherlands	Zambia
Finland	New Zeal.	Zimbabwe
France	Niger	
Georgia	Nigeria	
Germany	Norway	
Ghana	Oman	
Gibraltar	Panama	
Greece	Pakistan	



Weather Data Station Location



Data Availability

* red dots represent weather station locations in our primary archives and available through SuperPack-Light., subject to the limit of 1,500 sites

Weather Data Inventory

Access to a detailed station inventory is provided via the Speedwell web site www.SpeedwellWeather.com. Using the map tool a user can review the availability of data on a country-by-country basis or by sector (e.g. "China Cotton").

Inventory statistics include:

- Station attribute information (station name, WMO #, National ID #, Speedwell ID, latitude, longitude, elevation)
- Breakdown of statistics by weather variable
- Begin date / end date of data
- Percentage data completeness for 1, 5, 10, 20, 30 year and all-year periods
- Station meta data (information about observation conventions, data sources...)

Users can download data directly from this page

The screenshot shows the 'Data Inventory' interface for 'China Secondary' stations. It includes a map of China with station locations marked by red dots. Below the map is a table listing station details.

SWIS ID	Station	Latitude	Longitude	Altitude	WMO	WBAN	ICAO	COOP ID	State	Country	First Appearance in Group	Group Name
S1302	Abaq Qi	44.017	114.950	1,128	53192					China	1	China Secondary
S1400	Albay	47.733	88.083	737	51076					China	1	China Secondary
S1225	Anqing	30.033	110.660	20	58424					China	1	China Secondary
S1298	Ansan	47.367	119.950	1,008	50727					China	1	China Secondary
S1411	Bachu	39.400	78.567	1,117	51736					China	1	China Secondary
S1253	Beise	23.900	106.600	242	59211					China	1	China Secondary
S1374	Barkam	31.900	102.233	2,666	56172					China	1	China Secondary
S1300	Bayan Mool	46.750	104.500	1,329	52495					China	1	China Secondary
S1236	Beijing	39.933	116.283	65	54511	ZBAA				China	1	China Secondary
S1222	Bengbu	32.950	117.367	22	58221					China	1	China Secondary
S1221	Bodian	33.883	115.767	42	58102					China	1	China Secondary
S1297	Bugti	48.767	121.917	739	50632					China	1	China Secondary
S1330	Changchun	43.900	125.217	238	54161	ZYCC				China	1	China Secondary
S1290	Changde	29.050	111.683	35	57662					China	1	China Secondary

View list of sites by region or crop peril.

The screenshot shows the 'Historical Data Warehouse' interface. It includes a search form for selecting a country, station, and data period, along with a 'Download (CSV Format)' button.

Download data directly from our web-site or receive by FTP or via ZE Group's Zema data management tool

The screenshot shows the 'Inventory & Statistics' page for 'Germany All' stations. It includes a table with audit statistics for various weather variables.

Element Name	Audit Start Date	Audit End Date	% Last 1 Yrs	% Last 5 Yrs	% Last 10 Yrs	% Last 20 Yrs	% Last 30 Yrs	% Complete 1st to Last Day	Has Cleaned Feed	Has Cleaned History
Pressure Ave	01/Jan/1950	21/Jun/2012	100.00	100.00	100.00	100.00	100.00	99.79		
Pressure Sea Level	28/Oct/2011	21/Jun/2012						100.00		
Rain	01/Jan/1951	21/Jun/2012	100.00	100.00	100.00	100.00	100.00	100.00	Yes	Yes
Relative Humidity	01/Jan/1950	21/Jun/2012	100.00	100.00	100.00	100.00	100.00	99.99	100.00	
Snow Depth On Ground	01/Jan/1951	21/Jun/2012	100.00	100.00	100.00	100.00	100.00	100.00		
Snowfall	09/Jun/1960	21/Jun/2012	100.00	100.00	100.00	100.00	100.00	99.92		
Sun Radiation	24/Jun/2007	12/Apr/2010						99.83		

View audit statistics by weather variable / period.

What SuperPack-Light Provides

- **Standard Data:**
Historical Data & Ongoing Feeds via FTP or Web site
 - 250+ world-wide crop-area baskets of cleaned history and feeds
 - 150+ energy demand population weighted baskets of cleaned history and feeds
 - US Primary Data Pack (260 "First Order" stations), cleaned daily temperature & precipitation
 - US Secondary Data Pack (250 "Second Order" stations), cleaned daily temperature & raw precipitation
- **Data On Demand:**
Selected from our catalogue of 21,000+ stations
 - An additional 1,500 daily data sets (historical & ongoing feeds) via FTP download or via immediate web download.
- **Access to Speedwell Data Tools**
 - Subscribers have unlimited access to a range of data tools available through the Speedwell web site.
 - Data Tools are designed to provide users with additional insight into historical time series.

Some of the most popular include:

- Actuals Vs. Climatology tool
- Statistics Extractor tool
- Index Calculator tool
- Weather Index Cone tool
- Analogue Years Tool

About Speedwell Cleaned Data

SuperPack-Light users are able to access our archives of over 10,000 international cleaned data sets. Up to 1,500 sites can be chosen as well as standard weighted baskets.

Cleaned data is data that has been processed to fill missing values and correct erroneous observations. The end result is a dataset that is ready to be used for analysis.

Speedwell's proprietary cleaning methodologies use a mixture of automated processing to flag possible errors followed by manual inspection.



Actuals Vs Climatology
Tabular or graphical view of any weather variable relative to climate normals for any period.



Weather Statistics Extractor
Extract weekly, or monthly statistics such as cumulative temperature, HDDs, CDDs.



Index Calculator
Calculate the historical values of any weather index

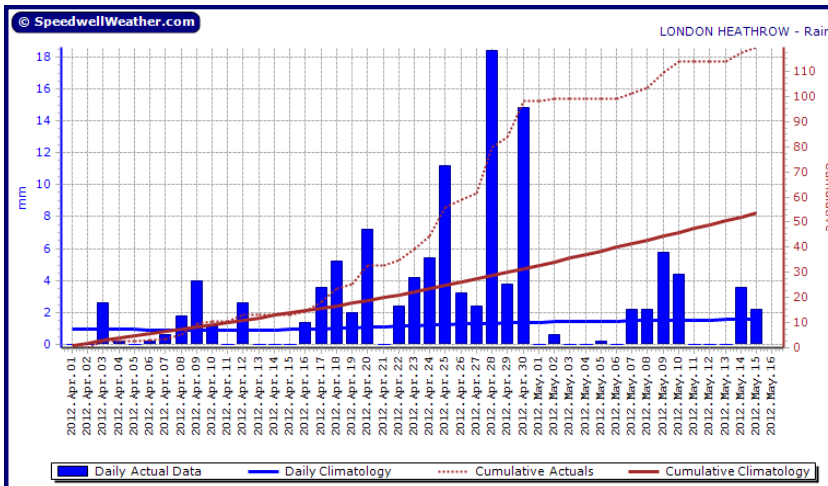


Weather Index Cone
Visualise the evolution of a weather variable over any period and compare with averages, extremes and last year at the click of a button.

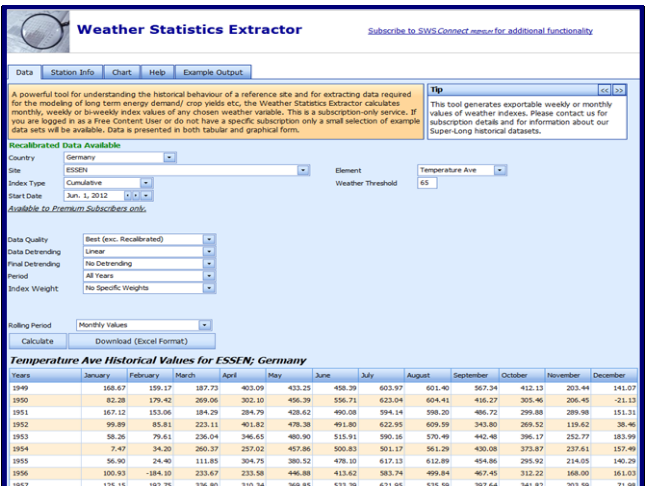


Correlation Analysis
Calculate daily, monthly correlations and auto-correlations.

Actuals Vs. Climatology Tool: Visualize the cumulative value of any weather variable for any period against climate



Weather Statistics Extractor Tool: Calculate monthly values of any weather index.



SuperPack® Features Summary

Feature	Super-Pack® Light	Super-Pack®
A choice of over 21,000+ core sites shown on the Speedwell map tool		
Access to Speedwell's secondary archive of circa 120,000 weather stations*		
Access to Speedwell's world wide agri and energy basket histories and feeds.		
Access to up to 1,500 historical data sets delivered per annum by FTP as well as standard weighted-baskets		
Access to up to 1,500 data feeds by FTP		
Unlimited access to historical data sets*		
Unlimited access to data feeds*		
Access to daily data		
Access to hourly and sub-hourly data		
Data cleaning-on-request*		
Access to web-delivered data tools		
Access to temperature & precipitation and other daily weather variables		
Access to all other weather variables		
Custom Data Requests*		
Custom Delivery Formats*		

* On a reasonable-request basis. A single data format for delivery is supported as standard

About Speedwell Weather Limited

Speedwell Weather provides quality weather data, weather forecasts, software, and weather-risk consultancy. With offices in the UK and the USA we serve clients in sectors including weather-risk, energy and agriculture world-wide. We are the dominant provider of settlement data for parametric weather risk contracts.

World-wide weather data

Speedwell carries an archive of many tens of thousands of quality weather data sets world-wide. Historical data and feeds are available via web download, by Speedwell API or by FTP. Our data sets are available for individual sites or, for users looking for unlimited access through SuperPack®. SuperPack makes available an unprecedented range of quality historical weather data and weather data feeds on-demand for a single annual fee.

Contacts

For more information about Commodity Product or other data and forecast services please see www.SpeedwellWeather.com or contact:

info@SpeedwellWeather.com

Telephone:

Europe: +44 (0) 1582 465 551
USA: +1 843 737 4843

Address UK: *Mardall House, Vaughan Rd, Harpenden, Herts, AL5 4HU*
Address USA: *418 King Street, Charleston, SC 29403*

**Environmental
Finance**

Annual Market Rankings

Winners: 2007-2015

Best Advisory/Data Service

**Environmental
Finance 2016**

Annual Market Rankings

Winner

Best Global Weather Risk
Management Advisory / Data
Service Winner for the
10th consecutive year