Your meteorological charting taken care of

Overview

The NetSys charts production suite allows for the definition, scheduling, delivery and monitoring of all your weather chart products. It supports a wide array of input weather data and output presentation formats. Delivery is managed by the proven nsMHS communications sub-system which is bundled with the nsCHARTS product.

Chart Management Console

Charts are defined from a graphical user interface. A definition can comprise a single chart or multiple charts forming a set. Distinction is made between automated creation and on-demand creation. Automated creation is triggered by a scheduled time or event. On-demand creation is triggered by virtue of accessing a URL. A definition comprise the map region, weather overlays, data and validity times, annotations, delivery details and scheduling/triggering conditions. Choose from B&W or colour backgrounds legend text and output resolutions. Preview charts, create configuration snapshots to roll back to and export definitions to import on another deployment.





Scheduling and Triggering

Configure exactly when charts are created. Events could be a regular schedule allowing choice of multiple days-of-the-week and hours-of-the-day. Exclusion zones can be created to prevent delivery over certain periods or inclusion zones to activate it only for certain periods. Events could also eminate from a trigger generated by the data reception system or user defined scripting. The system ships with some standard triggers such as a complete WAFC GRIB or SIGWX BUFR set received. It can easily be tailored to the model output of a local NWP system. Special overlays can be configured in the event that a timeout is reached before a complete data set is received.

Delivery

Choose the output resolution or paper size. Choose from a wide array of delivery destinations for a specific product. The following protocols are supported:

- Print
- Fax
- FTP
- GTS socket
- Local directory E-mail
- User defined script/program - HTTP
- AMHS X400





Map Projections

Create region definitions using a map projection builder. Choose from a list of well-known projects: Mercator, Lambert, Equirect, Gnomonic, Azimuthal, Loximuthal, Stereographic and Orthographic. Easily tune the parameters of each projection type. Tailor for a specific paper size or own dimensions. Tilt and resize region using the computer mouse. Recreate existing map projections during migration to nsCHARTS using the search facility to find the projection parameters previously used to produce a chart. Specify the preferred legend placement position. Export projection definitions for import at another deployment site.



Animated Products

Create animated products in MP4, AVI or animated GIF encoding for distribution through the same destribution channels as for normal charts. Ideal for delivery to a web server through FTP or SCP. Choose an animation iteration parameter from data time, valid time or data level. The same creation event possibilities as for normal charts apply.



Customization

Customize various aspects of your charting. Create custom palettes suitable to the data layers included in the chart or

suitable to the vision requirements of the intended audience. Create new data products derived from the primitive NWP output using the formula factory which allows for a multitude of mathematical operators. Combine different data types or the same type over different heights or the same types over different times. Advanced users may reference their own C/C++ code to prepare a data point.

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Weather Layers

Multiple data layers can be overlaid onto the same chart. Choose weather data types such as SIGWX, GRIB, Synop, Upper Air and RADAR. Create new derived data types using the GRIB laboratory formulas to combine different primitive model outputs from NWP. Create non-map oriented charts such as meteograms, hodograms, Tphi, SkewT-LogP and SYNOP model sequences.

Conclusion

The nsCHARTS product caters for all your in-house weather charting needs from data reception to triggering to production to delivery to monitoring. Backed by the renowned aftersales customer service of NetSys sets the scene for a long and fruitful investment when deciding on this product.



-6

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