

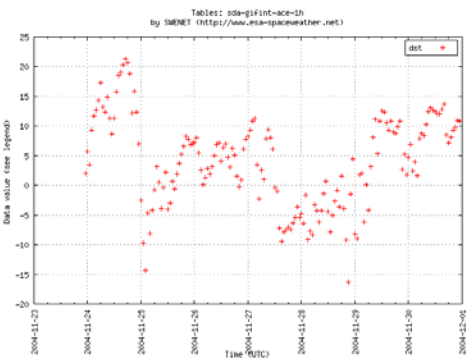
	Date: 2005-07-21
	Revision: 0.1

# 1 Definition of common formats in SWENET

This documents contains a description of the format used for various data in SWENET.

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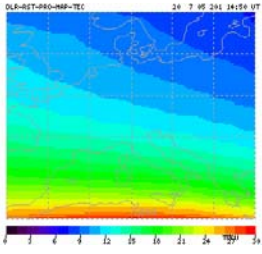
## 1.1 General Format definition for SWENET Plots

<b>Used in:</b>	<b>Example:</b>
GIFINT – Forecast of DST in [nT]	
ISGI – Various indices (work in progress)	
IRF Lund – Nowcasted and 3-day forecasted Kp	
University of Kyoto – Equatorial Dst [nT]	
NOAA/SEC - f10.7, Ap, Kp	

<b>Description:</b>	General format definition for the plotting of indices in SWENET
<b>Source:</b>	SWENET database
<b>Data type</b>	2-D Plot
<b>Grafic format:</b>	PNG
<b>Time format:</b>	JJJJ-MM-DD HH:MM
<b>x-Axis:</b>	Date
Unit	days
Max/Min value	variable
Scaling/Resolutions	1 day
Comments:	
<b>y-Axis:</b>	
Unit	none (depends on the data)
Max/Min value	Automatic
Resolution	1 unit
Comments:	

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## 1.2 Format definition of TEC Maps

<b>Used in:</b>	<b>Example:</b>
SWIPPA <ul style="list-style-type: none"> <li>Total Electron Content over Europe (5 minute resolution)</li> </ul>	
SWENET <ul style="list-style-type: none"> <li>Difference map between tec data from the iri2001 model and the swippa data.</li> <li>tecmaps based on the iri2001 model.</li> <li>tecmaps based on the swippa data.</li> </ul>	

<b>Description:</b>	TEC maps with a 5 minute resolution presenting the vertical TEC (in TECU) over Europe.
<b>Source:</b>	GNSS measurements
<b>Data type</b>	Map
<b>Grafic format:</b>	PNG
<b>Time format:</b>	JJJJ-MM-DD HH:MM
<b>x-Axis:</b>	Longitude
Unit	deg
Max/Min value	-5°E < long < 25°E
Scaling/Resolutions	1°
Comments:	
<b>y-Axis:</b>	Latitude
Unit	deg
Max/Min value	35°N < lat < 60°N
Resolution	1°
Comments:	
<b>Z-axis</b>	Vertical TEC
Unit:	TECU
Max/Min value	0-30
Scaling/Resolutions	
Comments:	Displayed as a color code

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### 1.3 Format Definition of DMI's Geomagnetic Outlook

<b>Used in:</b>	<b>Example:</b>																												
GAFS – 2-day geomagnetic outlook Station: Denmark - Brorfelde	<table border="1"> <thead> <tr> <th></th> <th>0-3 hrs</th> <th>3-12 hrs</th> <th>12-48 hrs</th> </tr> </thead> <tbody> <tr> <td>f_pos</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>f_neg</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>d_pos</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>d_neg</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>i_pos</td> <td>2</td> <td>0</td> <td>0</td> </tr> <tr> <td>i_neg</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>		0-3 hrs	3-12 hrs	12-48 hrs	f_pos	0	0	0	f_neg	0	0	0	d_pos	0	0	0	d_neg	0	0	0	i_pos	2	0	0	i_neg	0	0	0
	0-3 hrs	3-12 hrs	12-48 hrs																										
f_pos	0	0	0																										
f_neg	0	0	0																										
d_pos	0	0	0																										
d_neg	0	0	0																										
i_pos	2	0	0																										
i_neg	0	0	0																										

<b>Description:</b>	DMI Geomagnetic Forecast Services 2-DAY GEOMAGNETIC OUTLOOK
<b>Source:</b>	SWENET database (daa provided by GAFS)
<b>Data type</b>	Table
<b>Grafic format:</b>	-
<b>Time format:</b>	JJJJ-MM-DD HH:MM
<b>Columns</b>	Time
Unit	Hours
Max/Min value	0-48 hrs
Scaling/Resolutions	0-3 hrs, 3-12 hrs, 12-48 hrs
Comments:	
<b>Rows</b>	Disturbances
Values	f_pos, f_neg, d_pos, d_neg, i_pos, i_neg
Comments:	
<b>General Comments</b>	Color coded for geomagnetic activity: -1: undefined (missing data) White 0: quiet Green 1: unsettled Yellow 2: active Orange 3: storm Red