

METViewer

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

What is METViewer



Available:

MET output statistics in ASCII tables



Need:

plots showing statistics for variables, cases and relationships

What is METViewer



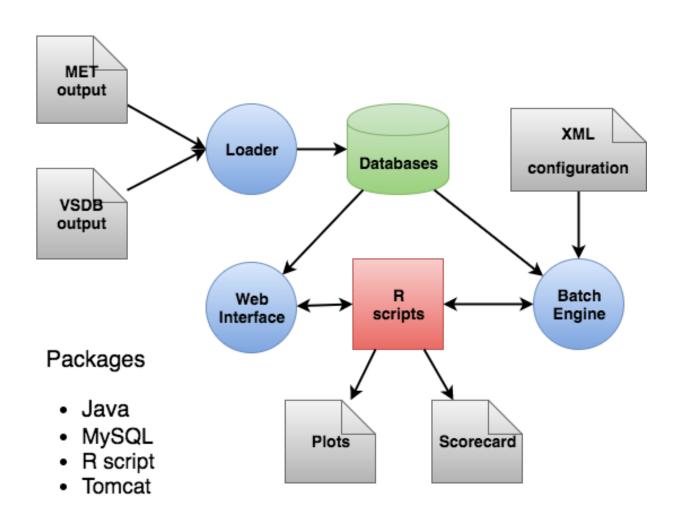
 A software package designed to help MET users visualize MET output.

Flexible, can be use as a stand-alone or web application.

- Written in Java and relies on:
 - database for data storage and retrieval
 - R language for plotting

METViewer components

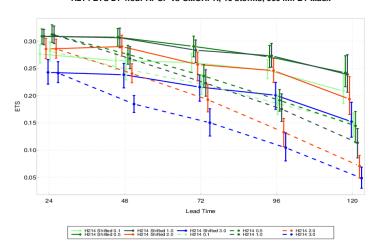




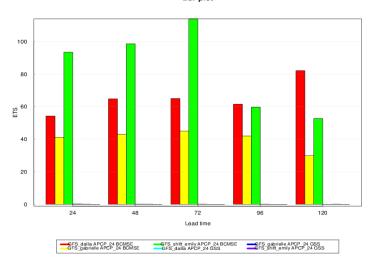
Examples



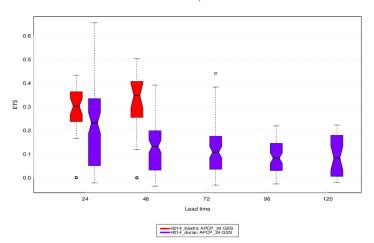
H214 ETS 24-hour APCP vs CMORPH, 16 storms, 600 km BT Mask



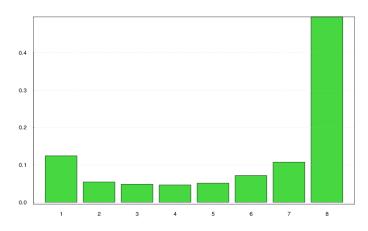
Bar plot



Box plot

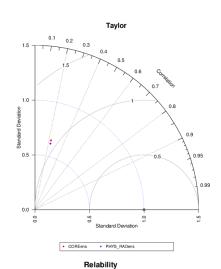


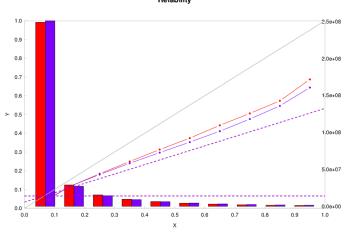
Rank Histogram



Examples

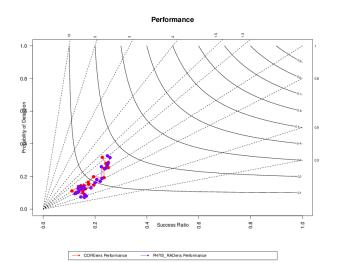


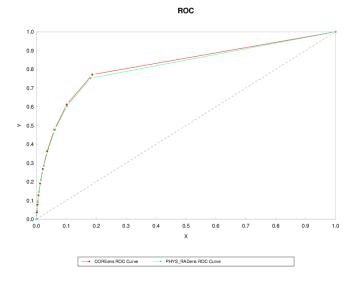




--- PHYS_RADens Reliability Curve

COREens Reliability Curve





Scorecard



METViewer calculates and displays p-values in the table

Scorecard

for sasctrl_0p25_G218 and gftest_0p25_G218

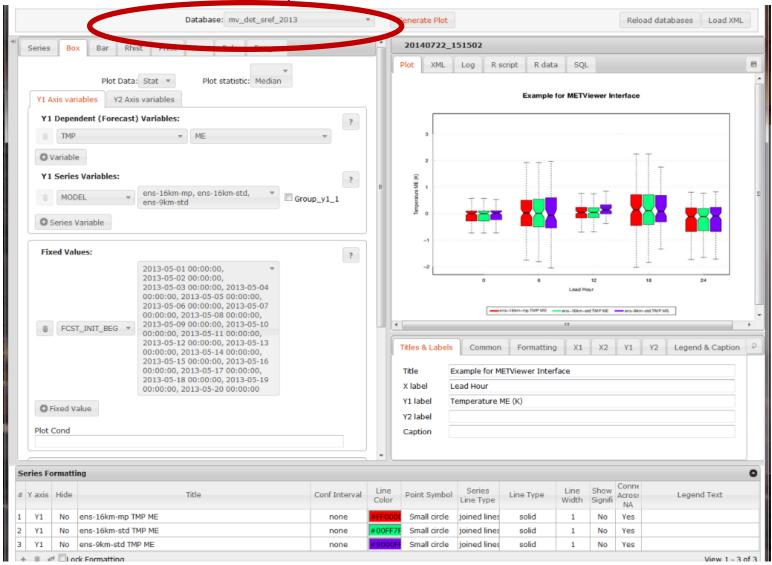
2016-06-01 00:00:00 - 2016-08-31 00:00:00

				CONUS																		
			f12	f24	f36	f48	f60	f72	f84	f96	f108	f120	f132	f144	f156	f168	f180	f192	f204	f216	f228	f240
ME	Temp	P100	▲1.000	▲0.999	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000		▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	
		P150	▲1.000	0.954	▲1.000	0.900	▲1.000	▲0.999	▲1.000	▲1.000	▲1.000		▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲0.996	▲1.000	
		P200	▼ -1.000		▼ -1.000	▼-1.000	▼-1.000	▼ -1.000														
		P300	▼ -1.000	▼ -1.000	▼-0.999	▲1.000	▼ -1.000	0.148	▼ -1.000	▼ -1.000	▼ -1.000		▼ -1.000	▼-1.000	▼-1.000	v -0.994	▼ -1.000	-0.978	▼ -1.000	v -0.994	▼ -1.000	
		P400	▼ -1.000	0.080	▲1.000	▲1.000	▲1.000	▲1.000	0.979	▲1.000	0.196		-0.883	0.523	-0.402	0.948	-0.159	0.791	-0.564	0.683	-0.570	
		P500	▼ -1.000	-0.269	-0.317	▲1.000	0.983	▲1.000	▲0.997	▲0.999	0.845		-0.376	0.840	0.482	0.977	0.686	0.929	-0.138	0.724	0.344	
		P700	▼ -1.000		▼ -1.000	▼-1.000	▼-1.000	▼ -1.000														
		P850	▼ -1.000	▼ -1.000	▼-1.000	▼ -1.000		▼-1.000	▼-1.000	▼-1.000	▼ -1.000	▼ -1.000	▼ -1.000	▼-1.000	▼ -1.000	▼ -1.000						
	RH	P300	▼ -1.000	0.972	-0.966	▲1.000	0.298	▲0.999	-0.317	▲0.990	-0.822		-0.005	▲1.000	0.249	▲1.000	-0.018	0.986	-0.225	▲1.000	-0.809	
		P400	▼ -1.000	▲0.999	0.212	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	0.989		▲1.000	▲1.000	▲1.000	▲1.000	▲0.991	▲1.000	0.932	▲1.000	0.752	
		P500	▼-0.998	0.963	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000		▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	0.966	
		P700	▲1.000	-0.228	▲1.000	-0.440	▲ 1.000	0.689	▲ 1.000	▲0.996	▲ 1.000		▲ 1.000	▲ 1.000	▲ 1.000	▲ 1.000	▲ 1.000	0.812	▲ 1.000	0.758	▲ 1.000	
		P850	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000		▲1.000	▲ 1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	▲1.000	

METViewer user interface

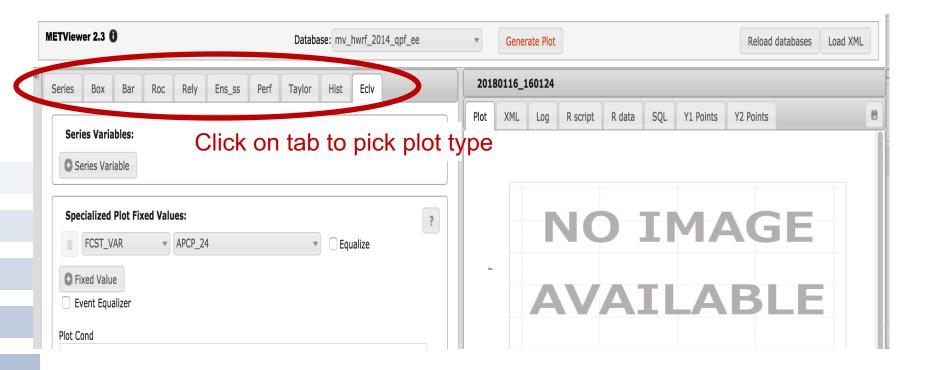


Click on down arrow to pick database





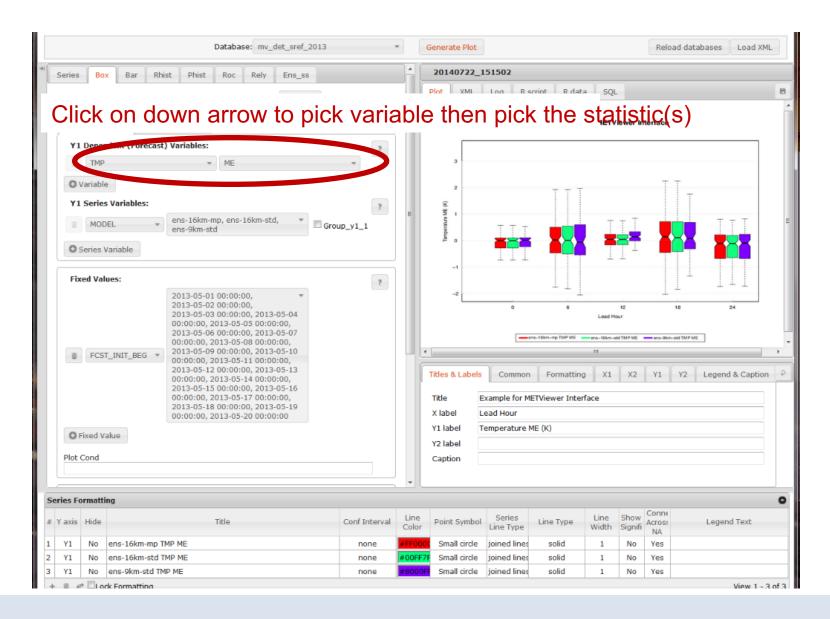




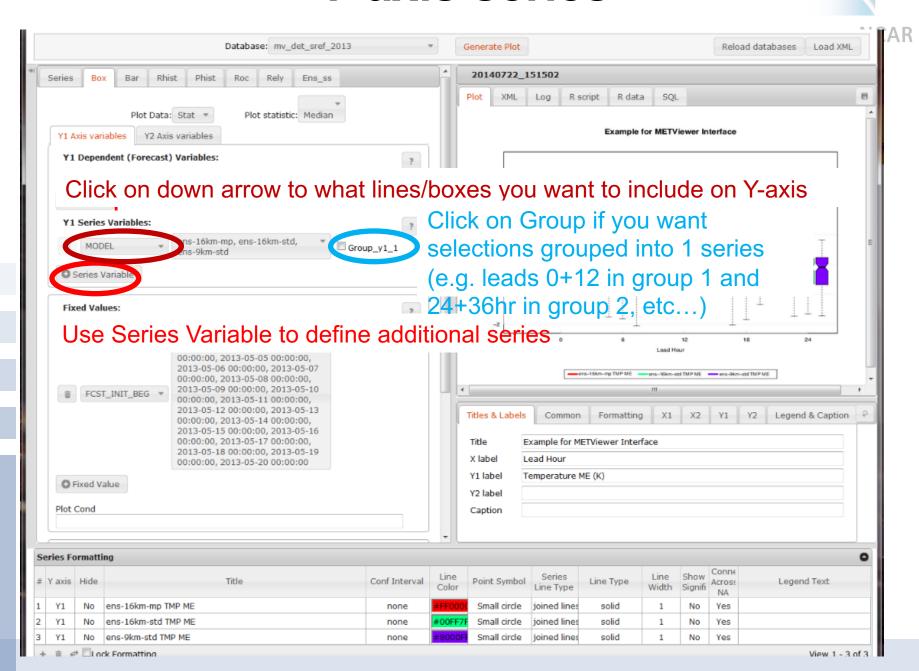
Series, Box, Bar, ROC, Reliability, Ensemble Spread-Skill, Performance Diagram, Taylor Diagram, Hist (Rhist, Phist, RELP), ECLV

Y-axis variables

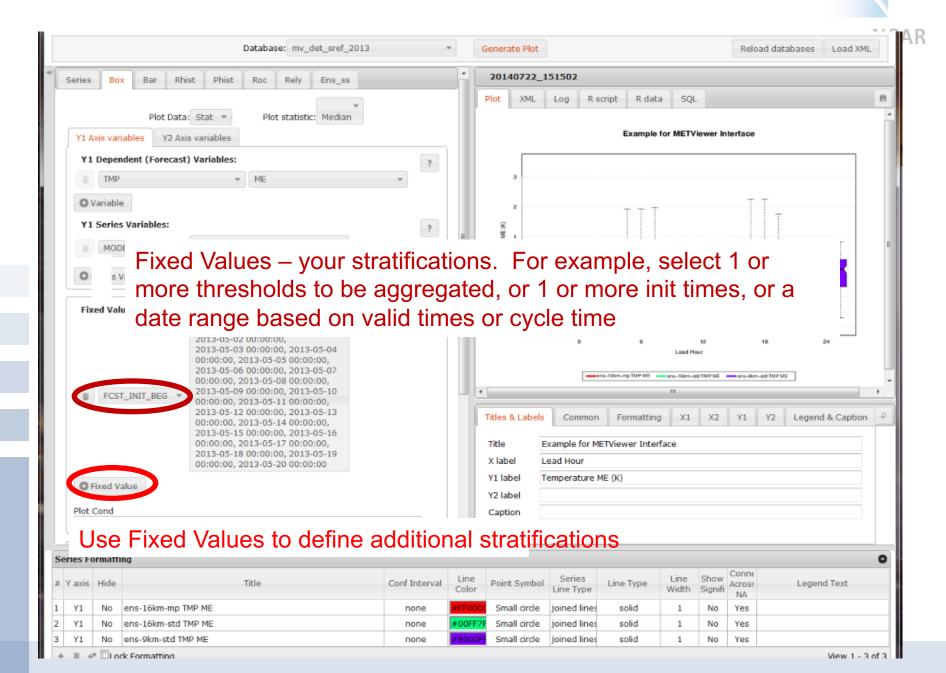




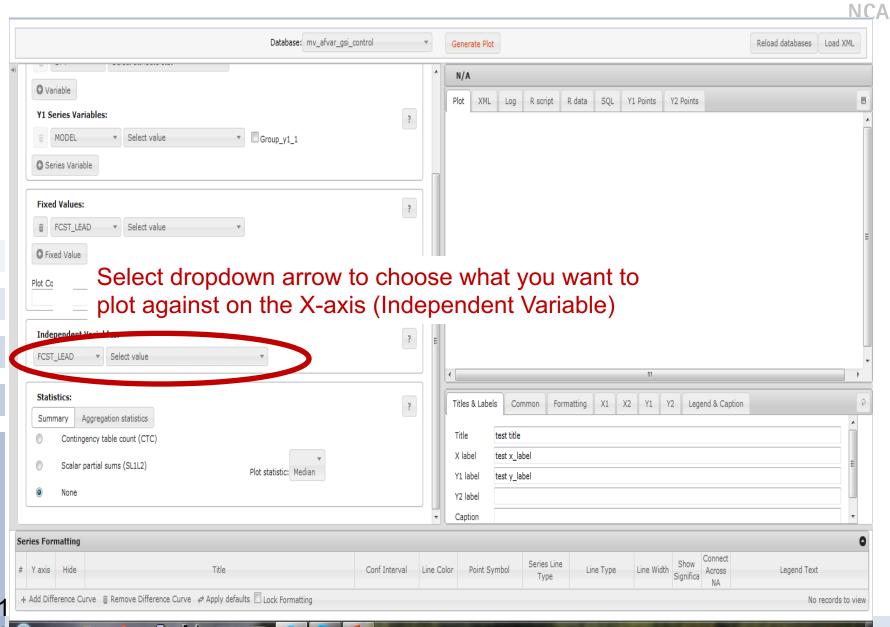
Y-axis series



Stratifications

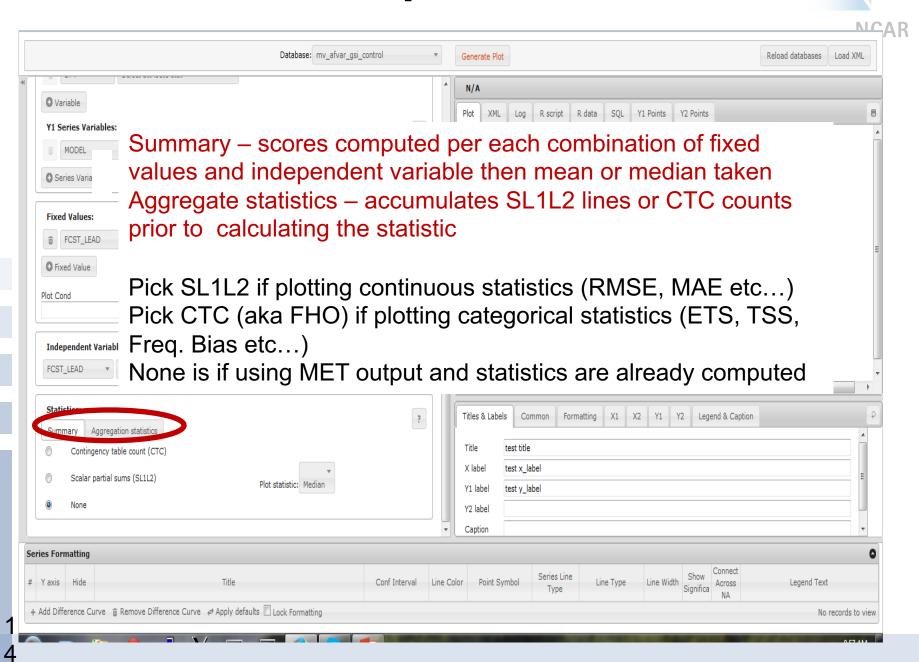


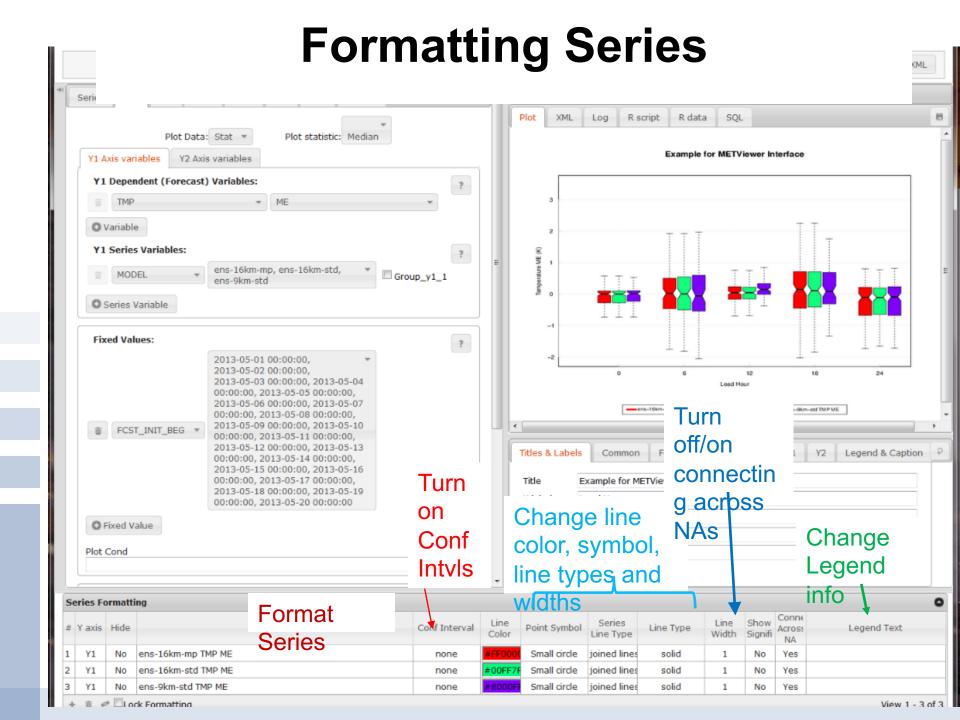
X-axis



3

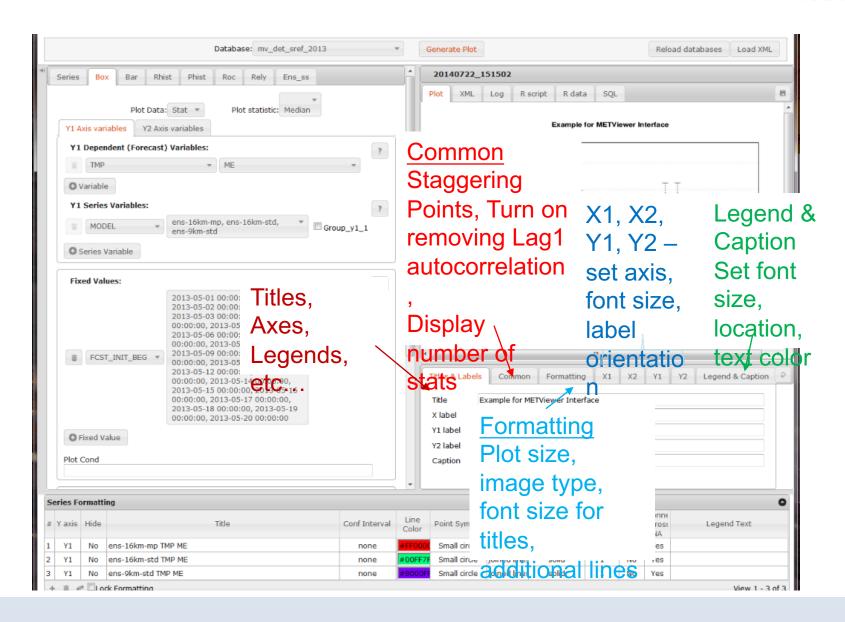
How to compute statistics





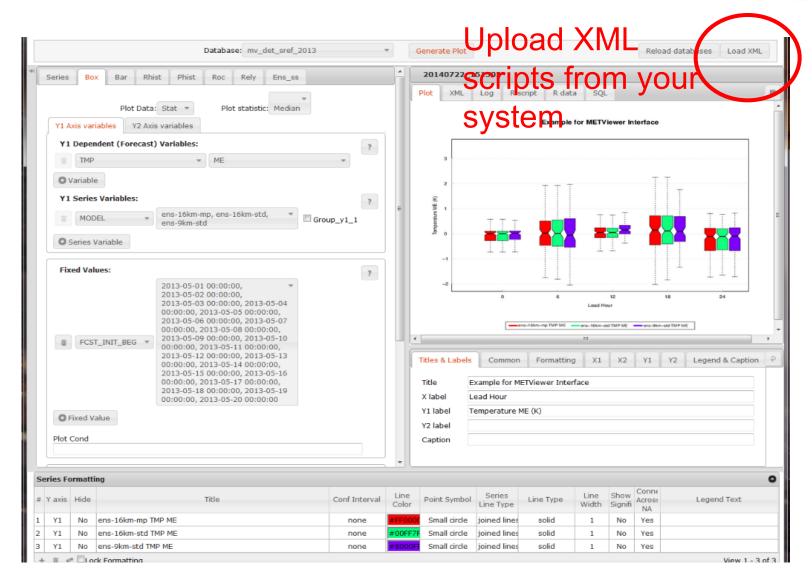
Formatting the Plot



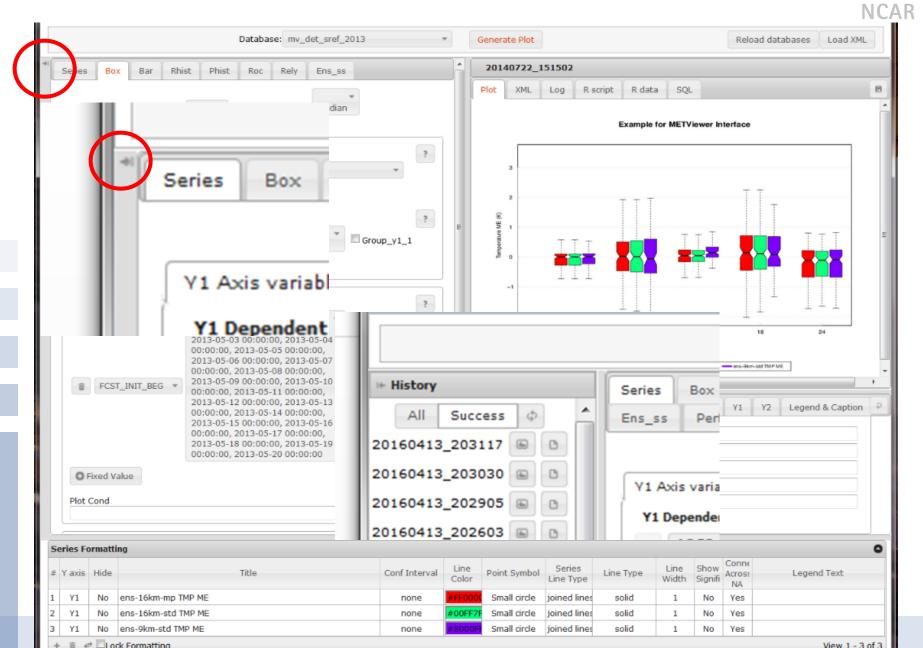


Upload XML configuration

NCAR



METViewer History



http://www.dtcenter.org/met/metviewer NCAR

