آموزش گام به گام نحوه دریافت داده های NCEP/NCAR

۱– ابتدا آدرس زیر را در موتور جستجو تایپ کرده:

http://www.esrl.noaa.gov/psd

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۲- در صفحه باز شده بر روی گزینه <mark>reanalysis datasets</mark> کلیک می کنیم:

U.S. Department of Commerce National Oceanic & Atmospheric Administration NOAA Research	
Earth System Research Laboratory Physical Sciences Division	Search PSD: Gench Quindar Pepis Aublications
About Contact Research Data Products Outrea	ach
Physical Sciences Division	
Conducting weather and climate research to observe & understand Bar	th's physical environment, and to improve
weather and climate predictions on global-to-local scales.	
Quick Links	Recent News
= Staff = News = Publications = Seminars	25 January 2011 Gil Compo & colleagues publish "Climate Time Machine" article cultining atmospheric dataset going back to 1871
Contributions	20 January 2011
- CIRES	NOAA to lead Winter Storms & Pacific Atmospheric Rivers (WISPAR) Experiment
Data Access & Plotting Palloan Joursh from the BM Viser during N	Our Branches
Reanalysis Datasets Atlantic research cruise (Photo by Duane	
Climate Research Data	Climate Analysis Branch Water Cycle Branch
Interactive Plotting & Analysis	Water Cycle Branch Weather & Climate Physics Branch
Climate/Weather Data FAQ	

۳- در این صفحه با توجه به اهداف تحقیق نوع داده اعم از ... & sub-daily, daily را مشخص می نماییم:



۴- در صفحه باز شده تراز مورد نظر برای استخراج داده را مشخص می نماییم:



li ub-daily		Descriptions Summary Attributes	
Daily Monthly Surface	Datasets	Description	OPeNDA Catalog
lulti-level	CPC .25x.25 Daily US Unified Precipitation	US high resolution gridded precipitation (from station data) for 1948 to 1998.	Catalog
.and Ocean Radiation	GFS Model Output	A dataset of historical weather forecasts generated with a fixed numerical model. Daily forecasts are comprised of a 15 day, 15-member ensemble and include surface and pressure level variables.	N/A
Arctic Reanalysis Climate Indices	ICOADS	Global surface marine data from 1800 to near the present summarized in monthly gridded formats (2*x2* boxes, or 1*x1* boxes from 1960 forward), and offering a variety of statistics.	Catalog
Search Datasets 🔎	Kaplan SST	Gridded global SST anomalies from 1856-present derived from UK Met Office SST data which has had sophisticated statistical techniques applied to it to fill in gaps.	Catalog
New Datasets 20th Century Reanalysis	MSU	Two Microwave Sounding Unit tropospheric temperatures and daily average precipitation available in a global grid (2.5*x2.5*).	Catalog
Popular Datasets COADS NCEP/NCAR Reanalysis	North American Regional Renalaysis (NARR)	NCEP's high resolution combined model and assimilated dataset. It covers 1979 to near present and is provided 8-times daily, daily and monthly on a Northern Hemisphere Lambert Conformal Conic grid for all variables.	Catalog
N. American Regional Reanalysis	NOAA High-resolution Blended Analysis of Daily SST and Ice.	NOAA High-resolution Blended Analysis of Daily SST and Ice. Data is from 1985 and is on a 1/4 deg global grid.	Catalog
Plotting & Analysis Basic Plots	NCEP/NCAR Reanalysis	A state-of-the-art analysis/forecast system is used to perform data assimilation using data from 1948 to the present.	Catalog
Analysis Loois Access	PSD Derived NCEP/NCAR Reanalysis Products	A subset of the NCEP/NCAR Reanalysis has been processed to create monthly means of the original data, and in some cases, derived variables or other statistics.	Catalog
OpenDAP Access Software Resources	NCEP/DOE Reanalysis II	A state-of-the-art analysis/forecast system is used to perform data assimilation using data from 1979 through 2003. A large subset of this data is available from PSD in its	Catalog

۵- در این صفحه نوع داده های مورد نیاز را (NCEP/NCAR Reanalysis) مشخص می نماییم:

۶- در صفحه باز شده بر روی پارامتر مورد نظر (برای مثال Relative humidity) کلیک می کنیم:

FTP Access	Download/Plot	Data:				
OpenDAP Access	Variable	Statistic	Level	Download File	Create Plot/Subset	
Software Resources *Complete Data Resources* Ahout NetCDE	Air Temperature	4-times Daily	Pressure	see list		
Reading Data in NetCDF Format FAQ	Air Temperature	Daily	Pressure	see list		
Other Data Resources Acronyms How to Cito	Air Temperature	Monthly Mean	Pressure	air.mon.mean.nc		
Feedback	Geopotential Height	4-times Daily	Pressure	see list		
	Geopotential Height	Daily	Pressure	see list		
	Geopotential Height	Monthly Mean	Pressure	hgt.mon.mean.no		
	Relative Humidity	4-times Daily	Pressure	see list		
	Relative Humidity	Daily	Pressure	see list		<
	Relative Humidity	Monthly Mean	Pressure	rhum.mon.mean.no		
	Specific Humidity	4-times Daily	Pressure	see list		

۷- بار دیگر بر روی نماد نقشه کلیک می کنیم:



۸- در صفحه باز شده اطلاعات مورد نظر را وارد می کنیم و در آخر بر روی آیکون Create Plot or Subset

of Data کلیک نموده تا نقشه مورد نظر ترسیم گردد:

U.S. Department of Commer	ce National Oceanic & Atmospheric Administration NOAA Research
Earth Sy Physical S	Sciences Division
Physical Sciences Divisio	n About Contact Research Data Products Outreach
PSD Links Home Staff	Visualize NCEP Reanalysis Daily Averages Pressure Level Data dimension values)
News Publications Seminars CIRES	Select the select the for additional help. If you find that the plotting process only produces a blank page: Commonly, this problet requesting too large a subset. The process for making the subset has to work on one year's file at a time, and HTTP protocol (long, so the web browser is left with nothing to display (hence, the blank page). The solution is to break the request into small usually easiest to do this along the time axis). If you need to concatenate the pieces back together on your end, the tool "nord suite of MetCPE poretores will bein (http://www.ang.ang.ang.ang.ang.ang.ang.ang.ang.ang
PSD Branches	suite of NetCOT operators will help (min.mob.source.orge.net).
Climate Analysis Water Cycle Weather & Climate Physics	Selected file://Datasets/ncep.reanalysis.dailyavgs/pressure/rhum.1948.nc rhum.%y4.nc 23071 Variable: rhum.Relative humidity/ Variable units: % Statistic: Mean
ESRL Divisions	
Program Links	Axis Dimensions: lat: Begin: 90.00S End: 90.00N lon: Begin: 0.00E End: 357.50E

	э).
Select one value to show a sli	ice at that value; select two values to identify a range to be averaged.
1000.00 millibar 🔨 time	Range: 1948 Jan 1 (Daily)
925.00 millibar	Begin: 1948 💙 Jan 💙 1 💙
700.00 millibar time	e: Range: 2011 Mar 1
level: 600.00 millibar 💌	End: 1948 💙 Jan 💙 1 💌
P Output options.	
 Create a plot. O Create a s 	subset without making a plot.
Plot output options:	
Plot on a black background	d. 🔍 Plot on a white background. 🗖 GIF (PNG default)
Color Plot	Reverse Color Table 🛛 Fill/Shade
Polar Stereographic	Remove Zonal Mean
Remove Contour Labels	Override Default Contour Interval:
Scale plot: 100%	Generate Postscript
	output
	Pront

۹- در پایان بر روی نقشه راست کلیک کرده و گزینه Save image as را می زنیم و با دادن مسیر دلخواه نقشه را ذخیره می نماییم.

