# National Climatic Data Center

## DATA DOCUMENTATION

### FOR

## DATASET 6110 (DSI-6110) NCEP Charts

# September 23, 2005

National Climatic Data Center 151 Patton Ave. Asheville, NC 28801-5001 USA

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1. <u>Abstract</u>: The National Climatic Data Center archives weather charts that are produced by the U.S. <u>National Centers for Environmental Prediction</u> (NCEP). The charts are the most commonly used by the climate community because they provide a quick historical reference concerning weather conditions on selected dates. They can also be used to geographically locate and date a series of weather phenomena and events. These charts consist of analyses and forecasts of all mandatory levels of the atmosphere.

Charts are produced on a daily basis at 00 and 12 UTC. The forecast charts present the expected condition for the next 12 hour period. During special meteorological events analysis charts are available at more frequent time intervals. The geographic presentations of these charts include the Northern and Southern Hemispheres, Tropical and Polar Regions.

The following summary of the chart contents contain constant pressure charts, including the analyses and forecasts of heights, temperatures, winds, relative humidity, vertical velocity, vorticity, lifted index, thickness levels, and wind shear. Also included in this archive are satellite imagery from the GOES East and West satellites. These satellite analyses include visible, infrared, and water vapor imagery. Also available are surface analyses and charts of the Atlantic and Pacific with special emphasis on specific areas such as the Gulf of Alaska.

File Name	Description	Area of	Observations
		Coverage	per Day
ak_24_wndwav	Forecasts of sea winds and waves in the Alaska area. Significant wave height is shown.	Bering Sea and Gulf of Alaska	2
atlxx_wndwav	Forecasts of 00, 24, 48, and 96 hour winds and waves. Shows significant wave height. The average height of the highest one- third of the waves. Produced twice daily at 00 and 12 UTC.	North Atlantic	2
atl_seaanal_12	Sea-state analysis. Arrows show direction of dominant waves and significant wave height in meters.	North Atlantic	1
atlxx_500fcst_xx	Forecast of 00, 24, 36, 48, and	North Atlantic	2

Types of charts available -

:

	96 hour 500 mb		
	analysis.		
atlxx_sfcfcst_xx	Forecast of 48	North Atlantic	2
	and 96 hour ocean		
	surface weather.		
	Includes pressure		
	movements and		
	fronts		
at148 wavend 12	Forecast of 48	North Atlantic	2
	hour wave period	North Atlantic	2
	and direction and		
	48 hour ice		
	accretion		
atle sfcanal vy	Analyzig of	Northeast	Δ
	Allarysis Ol	Atlantia	т
	Atlantic Surface.	ALIANLIC	
	includes pressure		
	systems, fronts,		
	and wind		
	direction and		
	speed.		4
allsic.uu	Preliminary	NOTTH ATLANTIC	4
	analysis of		
	Atlantic Surface.		
	Includes pressure		
	systems tendency,		
	and measurements		
	(mb), fronts,		
	temps, dew		
	points, winds,		
	cloud cover, and		
	ship call signs.		
atlw_sicanal_xx	Analysis of	Northwest	4
	Atlantic surface.	Atlantic	
	Includes pressure		
	systems and their		
	movements,		
	measurements,		
	winds, cloud		
	cover, and		
	fronts. In color.		
epac24_sicicst_00	24-hour surface	Northeast	4
	forecast of the	Pacific	
	Eastern Pacific.		
	Includes pressure		
	systems and their		
	movement,		
	measurements, and		
	fronts.		
epac24_wndwav_xx	24-hour wind and	Eastern Pacific	2
	wave forecast.		
	Includes		
	significant wave		
	height and		
	direction.		
epac_wwanal_00	Analysis of	Eastern Pacific	8
	significant wave		

4

	height and winds		
pacxx wndwav	Forecasts of 00,	North Pacific	2
	24, 48, and 96		
	hour winds and		
	waves Shows		
	significant wave		
	bojobt The		
	nergne. me		
	average neight of		
	the highest one-		
	third of the		
	waves. Produced		
	twice daily at 00		
	and 12 UTC.		-
pac00_500fcst	Analysis of the	North Pacific	2
	500 mb level in		
	the North		
	Pacific. Included		
	are pressure		
	centers,		
	measurements, and		
	winds aloft. The		
	analysis are		
	produced twice		
	daily at 00 and		
	12 UTC.		
pacxx 500fcst	Forecasts of the	North Pacific	2
Facini_0001000	500 mb level		-
	Available for 24		
	48 96 hour		
	forecasts		
nacyy sfofost	Forecasts of the	North Pacific	2
puerr_brerebe	Pacific sea	North ratific	2
	gurface		
	Available for 12		
	24 $49$ and $96$		
	bour foregoata		
no guu warnd	Hour Torecasts.	North Dogifia	2
pacxx_wavpu	Forecasts of wave	NOICH PACIFIC	2
	period/direction		
	accretion.		
	Available for 12,		
	24, 48, and 96		
	nour torecasts.		
pac_seaanal	Analysis of the	North Pacific	2
	Pacific sea		
	state.		
	Significant wave		
	height and		
	direction is		
	shown.		
pace_sfcanal_xx	Analysis of the	Northeast	4
	sea surface in	Pacific	
	color. Contains		
	pressure areas		
	and their		
	movements,		

	fronta winda		
	riones, winds,		
	clouds, and		
	1sobars.		
	Available at 00,		
	06, 12, and 18		
	UTC.		
pacw sfcanal xx	Analysis of the	Northwest	4
	sea surface in	Pacific	
	color Containg	racific	
	color. concarns		
	pressure areas		
	and their		
	movements,		
	fronts, winds,		
	clouds, and		
	isobars.		
	Available at 00,		
	06. 12. and 18		
dag yyy hat igo phan	Analyzia charring	Northorn	2
Juas_XXX_IIYL_ISU_IIII_dIII	Analysis Showing	NOTCHETH	4
		neursphere	
	ISOTACNS.		
	Available for		
	heights of 200,		
	250, 300, 500,		
	700, and 850.		
	Produced twice		
	daily at 00 and		
	12 UTC.		
das xxx hot iso sh anl	Analyses showing	Southern	2
	hoights and	Homisphoro	
	igotocha	nemisphere	
	ISOLACIIS.		
	Available for		
	neights of 200,		
	250, 300, 500,		
	700, and 850.		
	Produced twice		
	daily at 00 and		
	12 UTC.		
das xxxhqt tmp nh anl xx	Analysis of	Northern	2
,	heights and	Hemisphere	
	temperature at	TICHT PATIET C	
	cemperature at		
	various ieveis.		
	Levels include		
	100, 150, 200,		
	250, 500, and 700		
	mb.		
das xxxhqt tmp sh anl xx	Analysis of	Southern	2
, <u>_</u>	heights and	Hemisphere	
	temperature at		
	various levola		
	Various ieveis.		
	100, 150, 200,		
	1250 500 and 700		
	250, 500, and 700		
	mb.		
gdas_sfc_mslp_thk_xx_anl	mb. Analysis showing	Northern	2
das_sfc_mslp_thk_xx_anl	mb. Analysis showing mean sea level	Northern Hemisphere	2
das_sfc_mslp_thk_xx_anl	mb. Analysis showing mean sea level	Northern Hemisphere	2
das_sfc_mslp_thk_xx_anl	mb. Analysis showing mean sea level	Northern Hemisphere	2
gdas_sfc_mslp_thk_xx_anl	mb. Analysis showing mean sea level	Northern Hemisphere	2

	pressure / 1000-	and	
	F00 mb thicknood	Southorn	
	500 IIID CHICKHESS	Souchern	
	levels.	Hemisnpere	-
gfs_sfc_mslp_thk_uscan_anl	Analysis showing	United States	2
	mean sea level	and Canada	
	pressure/ 1000-		
	500 mb thickness.		
	Produced twice		
	daily at 00 and		
	tally at 00 and		
	12 010.	-	-
gfs_sfc_mslp_thk_nh_fxx	Forecasts of mean	Northern	2
	sea level	Hemisphere	
	pressure/1000-500		
	mb thickness.		
	Forecasts are		
	made twice daily		
	at 00 and 12 ITTO		
	IOT 12, 24, 36,		
	and 48 hour		
	periods.		
gfs_xxx_hgt_iso_nh_anl	Analysis showing	Northern	2
	heights,	Hemisphere	
	isotachs, and jet	_	
	steam winds		
	Available for		
	heights of 100		
	150, 200, 250,		
	and 300 mb.		
gfs_xxx_hgt_tmp_nh_anl	Analysis showing	Northern	2
	heights and	Hemisphere	
	temperatures for		
	100, 200, 500,		
	and 700 mb.		
gfs xxx hgt wnd trp anl	Analysis showing	0 W	4
	heights and winds	0 E	-
	for $150$ $250$	70 N	
	101 130, 230,		
	500, 700, and 850	-30 5	
	dm.		<u>^</u>
gfs_xxx_hgt_vor_nh_an1	Analysis showing	Northern	2
	heights and	Hemisphere	
	vorticity at the		
	500 mb level.		
gfs_500_hgt_vor_uscan_anl	Analysis showing	United States	2
	heights and	and Canada	
	vorticity at the		
	500 mb level		
afs 500 hat vor nh fyr	Forecasts of 500	Northern	2
grs_500_lige_vor_lin_rxx	rorecases or 500	Howigebouc	2
		remisphere	
	vorticity.		
	Forecasts are		
	made twice daily		
	at 00 and 12 UTC		
	for a 12, 24, 36,		
	and 48 hour		
	period.		
gfs 700 rh vvel nh anl	Analysis of 700	Northern	2
		· · · · · ·	1

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	mb relative	Hemisphere	
	humidity and		
	vertical		
	vologity		
	Verocity.		
	Analysis made		
	twice daily at 00		
	and 12 UTC.		
gfs_700_rh_vvel_nh_fxx	Forecasts of 700	Northern	2
	mb heights and	Hemisphere	
	vorticity.		
	Forecasts are		
	made twice daily		
	at 00 and 12 UTC		
	for = 12 24 36		
	101 a 12, 24, 50,		
	and 46 nour		
	period.		
gfs_lift_nh_anl	Analysis of the	Northern	2
	lifted index.	Hemisphere	
	Produced twice		
	daily at 00 and		
	12 UTC.		
qfs trop prs wsh nh anl	Analysis of the	Northern	2
	tropopause with	Hemisphere	
	respect to	nemipfilere	
	pressure and wind		
	choor Apolygog		
	snear. Analyses		
	are made twice		
	daily at 00 and		
	12 UTC.		
namxxsfc	Analysis of the	Alaska, Central	8
	surface. Charts	Central,	
	show major	Central	
	surface elements	Eastern,	
	including: Temps,	Central	
	dow points wind	Wootown Nowth	
	UEW DUIHLS, WIHL	western, North	
	speed and	Central North	
	speed and	Central, North	
	speed and direction,	Central, North East, North	
	speed and direction, pressure, fronts,	Central, North East, North West, South	
	speed and direction, pressure, fronts, and cloud cover.	Western, North Central, North East, North West, South Central, South	
	speed and direction, pressure, fronts, and cloud cover. Charts are	Western, North Central, North East, North West, South Central, South East, South	
	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3	Western, North Central, North East, North West, South Central, South East, South West, North	
	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all	Western, North Central, North East, North West, South Central, South East, South West, North America, United	
	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the	Western, North Central, North East, North West, South Central, South East, South West, North America, United States	
	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North	Western, North Central, North East, North West, South Central, South East, South West, North America, United States	
	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the	Western, North Central, North East, North West, South Central, South East, South West, North America, United States	
	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States.	Western, North Central, North East, North West, South Central, South East, South West, North America, United States	
sat evntxx	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States. Analysis of	GOES East	2
sat_evntxx	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States. Analysis of visible satellite	GOES East	2
sat_evntxx	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States. Analysis of visible satellite images covered by	GOES East	2
sat_evntxx	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States. Analysis of visible satellite images covered by the COES Fact	GOES East	2
sat_evntxx	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States. Analysis of visible satellite images covered by the GOES East	GOES East	2
sat_evntxx	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States. Analysis of visible satellite images covered by the GOES East satellite.	GOES East	2
sat_evntxx	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States. Analysis of visible satellite images covered by the GOES East satellite. Special events	GOES East	2
sat_evntxx	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States. Analysis of visible satellite images covered by the GOES East satellite. Special events allow for 06 and	GOES East	2
sat_evntxx	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States. Analysis of visible satellite images covered by the GOES East satellite. Special events allow for 06 and 18 UTC	GOES East	2
sat_evntxx	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States. Analysis of visible satellite images covered by the GOES East satellite. Special events allow for 06 and 18 UTC transmissions.	GOES East	2
sat_evntxx	speed and direction, pressure, fronts, and cloud cover. Charts are produced every 3 hours for all regions in the country, North America and the United States. Analysis of visible satellite images covered by the GOES East satellite. Special events allow for 06 and 18 UTC transmissions. Analysis of	GOES West	2 Various

	evaporation of various areas covered by the GOES West Satellite.		Times
watl24_sfcfcst_xx	Forecasts of 24 hour sea surface. Contains surface pressure areas, measurements, and movements, fronts, and isobars.	North Atlantic	2
watl_wwanal_xx	Analysis of significant sea winds and waves. Significant wave height is shown along with surface winds.	Varies per special event	8

#### 2. Element Names and Definitions:

None included with original documentation.

- 3. <u>Start Date</u>: 19940201
- 4. Stop Date: Ongoing

#### 5. <u>Coverage</u>:

- a. Southernmost Latitude: -90.0S
- b. Northernmost Latitude: 90.0N
- c. Westernmost Longitude: -180.0W
- d. Easternmost Longitude: 180.0E

### 6. <u>How to Order Data</u>:

Ask NCDC's Climate Services about the cost of obtaining this data set. Phone: 828-271-4800 FAX: 828-271-4876 E-mail: NCDC.Orders@noaa.gov

#### 7. Archiving Data Center:

Archive Branch National Climatic Data Center 151 Patton Avenue Asheville, NC 28801

#### 8. <u>Technical Contact</u>:

National Climatic Data Center 151 Patton Avenue

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- :

Asheville, NC 28801

- 9. Known Uncorrected Problems: None.
- 10. <u>Quality Statement</u>:
- 11. Essential Companion Datasets:
- 12. <u>References</u>: