

NCEP Service Center Requests

6-hrly output frequency out to 192 hrs lead time (based on 1x1 gridded forecasts)

HPC, SPC: NA domain

OPC: NH domain

TPC: Global domain

North American domain: 8N 135.5W to 37.7N 19.25W

PRI	FUNCTIONALITY	CENTRALLY MADE PRODUCTS	CENTER
1	Mean of selected members (<i>Web</i>)	Z: 500mb, 700mb, 850mb	HPC,SPC,OPC,TPC
2	<i>First Phase</i>	T (K): 500, 700, 750, 800, 850, 900mb	HPC,OPC,TPC
2		Wind: 250, 500, 700, 850mb	HPC,OPC,TPC
3		Z: 250mb	HPC,SPC
3		MSLP	OPC,TPC
3		T (K): 925, 300, 250, 200mb	OPC,TPC
3		Wind: 10m, 925, 300, 200mb	OPC,TPC
4		Z: 925mb	SPC
4		Trop Height	AWC
4		Climatological mean 500 mb heights	SPC
4		Climo variance in 500 mb heights	SPC
4		1000-500 mb thickness	SPC
4		pmsl	HPC
4		pmsl \leq 1000mb, 980, 960	SPC
4		Trop Temp	AWC
4		T (K): BL	HPC
4		T (F): 2m (\geq 70)	SPC
4		T 850 (C): \leq 2, \leq 0, \leq -2	SPC
4		Td 850 (C): \geq 8, \geq 12, \geq 16	SPC
4		Wind: BL	HPC
4		10m wind \geq 40 mph	SPC
4		850 wind: \geq 30 kts	SPC
4		500 wind: \geq 50 kts, \geq 75 kts	SPC
4		300 wind: \geq 100 kt, \geq 125 kt, \geq 150kt	SPC
4		VV: 500-700mb mean layer	HPC
4		Max Wind Level	AWC
4		Max Wind Speed	AWC
4		AVOR: 500, 850	HPC
4		RH: 500-900mb mean layer	HPC
4		2m RH	HPC
4		2m RH \leq 40%, \leq 35%, \leq 30%	SPC
4		QPF	HPC
4		QPF 3,6,12,24,48hr prcp strat: \geq .05", .10", .25"	SPC
4		QPF 3,6,12,24,48hr prcp convct: \geq .05", .10", .25"	SPC
4		PW	HPC
4		PW \geq 25,38, 50 mm	SPC
4		CAPE	HPC
4		CAPE: most unstable & mixed layer	SPC
4		CIN	HPC
4		CIN: most unstable & mixed layer	SPC
4		LI	HPC
4		Theta – E (sfc)	HPC
4		LCL (sfc, most unstable,mixed layer)	SPC
4		K Index	SPC

4	LFC (sfc, most unstable,mixed layer)	SPC
4	500-700mb lapse rate	SPC
4	6km vert shear: ≥ 20 kts	SPC
4	eff shear LPL - .5 EL	SPC
4	Craven Brooks Sig Svr (CAPE X Shear)	SPC
4	SPC Significant Tornado Parameter	SPC
4	SPC Supercell Composite Parameter	SPC
4	SPC Cloud Physics Thunder Parameter	SPC
4	Freezing level	AWC
4	Cloud amount	AWC
4	Visibility	AWC
4	Ceiling	AWC
4	Cloud Top	AWC
4	Conv. Cld. Amount	AWC
4	Conv. Cld. Speed	AWC
4	Fosberg Fire Wx: $\geq 80, \geq 85$	SPC
4	Haines Fire Wx Index	SPC
4	RMOP	SPC
4	Significant wave height (if available)	TPC
1	Spread of selected members (<i>Web</i>)	AWC,OPC,TPC
2	First phase	OPC,TPC
2	Wind speed at 10m, 925mb,850, 500, 200mb	OPC,TPC
3	500 hght	HPC
3	Trop Height	AWC
3	pmsl	HPC
3	BL temp	HPC
3	Trop Temp	AWC
3	Max Wind Level	AWC
3	Max Wind Speed	AWC
3	QPF	HPC
3	Freezing level	AWC
3	Cloud amount	AWC
3	Visibility	AWC
3	Ceiling	AWC
3	Cloud Top	AWC
3	Conv. Cld. Amount	AWC
3	Conv. Cld. Speed	AWC
1	Median of selected members	OPC,TPC
1	Second phase	OPC,TPC
1	Wind speed at 10m	OPC,TPC
1	Lowest value in sel. members (<i>W</i>)	OPC,TPC
1	Second phase	OPC,TPC
1	Wind speed at 10m	OPC,TPC
1	Visibility	OPC,TPC
2	MOS Max T	HPC
2	MOS Min T	HPC
2	2m T: ≥ 80 F, ≥ 90 F	SPC
2	10m wind: ≥ 10 mph	SPC
2	850 wind: ≥ 20 kts	SPC

2	700 wind: ≥ 20 kt, ≥ 30 , ≥ 40 , ≥ 50 , ≥ 60 kt	SPC
2	500 wind: ≥ 30 kt, ≥ 40 , ≥ 60 , ≥ 90 kts	SPC
2	300 wind: ≥ 50 kts, ≥ 75 kts	SPC
2	Snow accum	HPC
2	ZR accum	HPC
2	QPF	HPC
2	MOS PoP 12h	HPC
2	(3,6,12,24,48hr prcp strat: $\geq .5$ ", ≥ 1 ", ≥ 1.5 ", ≥ 2 ", ≥ 3 ", ≥ 5 "	SPC
2	(3,6,12,24,48hr prcp convct: $\geq .5$ ", ≥ 1 ", ≥ 1.5 ", ≥ 2 ", ≥ 3 ", ≥ 5 "	SPC
2	2m RH: $15 \leq RH \leq 30\%$, $30 \leq RH \leq 45\%$	SPC
2	Cloud amount	AWC
2	700mb omega: ≤ -1 ($\times 10^{-3}$)pa/s	SPC
2	Most Unstbl LCL: ≥ 500 j/kg, ≥ 1000 , ≥ 1500 , ≥ 2500 , ≥ 3000 j/kg	SPC
2	$20 \leq$ brn shear ≤ 140	SPC
2	Downdraft CAPE: $\leq 1, 2, 3, 5, 7$	SPC
2	Moist Potential Vortcity	SPC
2	Frontogenesis in same lyr as MPV	SPC
2	Frontogenesis Funct: ≥ 1	SPC
2	Cld Top T: ≥ 8 C, $-8 \leq CT \leq -12$ C, ≤ -12 C	SPC
2	Dendritic Growth Lyr Depth: ≥ 50 mb, ≥ 100 mb, ≥ 150 mb	SPC
2	Fosberg Fire Wx: Fos ≥ 90	SPC
2	SPC Lwr Atm Fire Wx Idx: $\geq 5, 7, 9$	SPC
2	Haines Fire Wx Idx: $\geq 5, 6$	SPC
2	Dry TRW Param: $\geq 1, 2$	SPC
1	Highest value in sel. Members (W) Z: 500mb	OPC,TPC
1	Second phase MSLP	OPC,TPC
1	Wind speed at 10m (vector,magnitude)	OPC,TPC
1	sig. wave ht	OPC,TPC
2	Temp	AWC
2	Td	AWC
2	Height	AWC
2	Snow accum	HPC
2	ZR accum	HPC
2	QPF	HPC
2	MOS Max T	HPC
2	MOS Min T	HPC
2	MOS PoP 12h	HPC
2	Avor	AWC
2	RH	AWC
2	Omega	AWC
2	Precipitable water	AWC
2	T: 2m ≥ 60 F, 850mb	AWC
2	2m Td: 2m ≥ 45 F, 50, 55, 60, 65, 70F; 850mb	AWC
2	vector wind: 10m $\geq 10, 20, 30$ mph; 850 $\geq 40, 50$ kts	AWC
2	wind (components,speed): 500, 300mb	AWC
2	700mb omega: $\leq -3, \leq -5, \leq -7, \leq -9$ ($\times 10^{-3}$)pa/s	AWC
2	3 hr prcp[strat/convct]: $\geq .01$ "	AWC
2	Lifted Idx: $\leq 0, -1, -2, -4, -6, -8$ C	AWC
2	CAPE: Sfc, Most Unstl, Mixed Lyr ($\geq 150, 250, 500, 1000, 1500$)	AWC
2	CIN Sfc, Most Unstbl, Mixed Lyr: $\geq -25, -50$ j/kg	AWC
2	Mixed Layer LCL	AWC

2	6km vert shear: $\geq 30,40,50$ kts	AWC	
2	0-1 Km storm relative helicity: $\geq 50,100,150,200$ j/kg	AWC	
2	0-3 Km storm relative helicity: $\geq 100,150,200,250,300,400,5$	AWC	
2	2m RH: $\leq 10,15,20,25\%$	AWC	
2	Fosberg Fire Wx Idx $\geq 50,60,70,75$	AWC	
2	1000-500mb thickness	AWC	
2	Precip type: rain, snow, mix, ice	AWC	
1	Range between lowest and highest	Z: 500 hPa	OPC,TPC
1	values in selected members (<i>Web</i>)	MSLP	OPC,TPC
1	<i>Third phase</i>	Wind speed at 10m (vector,magnitude)	OPC,TPC
1		sig. wave ht	OPC,TPC
2		Snow accum	HPC
2		ZR accum	HPC
2		QPF	HPC
2		MOS Max T	HPC
2		MOS Min T	HPC
2		MOS PoP 12h	HPC
1	Univariate exceedance probabilities	10m Wind speed; thresh 20,34,50,64kts	OPC,TPC
1	for a selectable threshold value (<i>W</i>)	sig. wave ht at various values	OPC,TPC
2	<i>First phase</i>	Snow: 1", 4", 8" 12"	HPC
2		ZR: .01", .10" .25" .50"	HPC
2		QPF .50" 1", 2" 3" 5"	HPC
2		Most probable ptype	HPC
2		Jet Stream>80kt for 18K, 34K, & 45Kft	AWC
2		Jet Stream> 100 kt for 18K, 34K, & 45Kt	AWC
2		Prob of Icing at 0,3,6,9,12,15,18, 24Kft	AWC
2		Prob of Icing within 0-24Kft	AWC
2		Prob of CLR, SCT, BKN, OVC clds	AWC
2		Prob of VFR, MVFR, IFR, LIFR.	AWC
2		Prob of light turb every 3Kft Sfc - 45Kft	AWC
2		Prob of mod turb every 3Kft Sfc - 45Kft	AWC
2		Prob of sev turb every 3 Kft Sfc - 45Kft	AWC
2		Prob of mod turb between Sfc - 18Kft	AWC
2		Prob of mod turb between 18K - 45Kft	AWC
2		Prob of vert wind shear Sfc-2Kft >10kt, >20kt	AWC
2		Prob of 10 m wind > 10, 20, or 30kt	AWC
1	Multivariate (up to 5) exceedance	BL < 0 and QPF > 0	HPC
1	probabilities for a selectable	sig. wave height	OPC
1	threshold value	visibility	OPC
1	<i>Second phase</i>	10m winds	OPC
1		TSTORM potential	OPC
1	Forecast value associated with	10m Wind speed; apRx. 25 th ,50 th ,75 th , & 90 th percentiles	OPC,TPC
2	selected univariate percentile value	67% for QPF	HPC
2	<i>Second phase</i>	67% for S	HPC
2		67% for ZR	HPC
1	Tracking center of maxima or minima	Minima and maxima in MSLP	OPC,TPC
1	in a gridded field	Maxima in 850 mb relative vorticity	OPC,TPC

2 (eg – low pressure centers) (<i>Web</i>)	Pmsl low	HPC
2 <i>Second phase</i>	Maxima in wind speed at 10m	OPC
2	Maxima in sig. wave height	OPC
1 Objective grouping of members	MSLP: lows/troughs/mins & highs/ridges/maxes	OPC,TPC
1 <i>First phase</i>	850mb rel vort: lows/troughs/mins & highs/ridges/maxes	OPC,TPC
1	500 mb Z: lows/troughs/mins & highs/ridges/maxes	OPC,TPC
2	500mb heights	HPC
2	pmsl	HPC
1 Plot Frequency / Fitted probability	10m winds	OPC
1 density function at selected location	sig. wave heights	OPC
1 and time (lower priority)	visibility	OPC
<i>Third phase</i>		
1 Plot Frequency / Fitted probability	10m winds	OPC
1 density function plot as a function of	sig. wave heights	OPC
1 forecast lead time, at selected location (lower priority)	visibility	OPC
<i>Third phase</i>		
1 Spaghetti plots (<i>Web</i>)	Ht: 200, 300, 500 mb	HPC
1 <i>First phase</i>	pmsl	HPC
1	850 0C isotherm	HPC
1	BL 0C isotherm	HPC
1	QPF .01, .25; .5; 1; 2; 3; 4 (6hr & 24h)	HPC
1	Snow 1" 2" 4" 6" 8" 12" 18" 24" (6& 24h)	HPC
1	ZR .01", .1"; .25"; .5" ; 1" (6h & 24h)	HPC

Carribean and South American Product Requests

6 hourly to 84hrs/12 hourly to 192hrs (all 6-hrly if possible)

Caribbean domain: 30N 115W to 00N 50W

South American domain: 13N 85W to 57S 35W

Western Hemisphere for mean/spread: QPF, 500mb height, 500mb avor, 850 avor, pmsl

African Monsoon Multidisciplinary Analysis (AMMA) Product Requests

TBD