

Description of NDFD Database Contents

Elements

Currently, the NDFD contains data representing the following weather elements. More elements will be added as development of the NDFD progresses. NDFD data are available for projections (as described in the table below) at the following Coordinated Universal Times (UTC): 0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100.

Elements	No. of Grids	Projections
12-hour Probability of Precipitation (PoP12)	13-15	Every 12 hours, out to 168 hours
Apparent Temperature	33-41	Every 3 hours out to 72 hours; every 6 hours out to 168 hours
Dew Point	33-41	Every 3 hours out to 72 hours; every 6 hours out to 168 hours
Hazards	59-82	Every hour, out to 72 hours; every 6 hours out to 120 hours
Maximum Temperature	7-8	Every 24 hours, out to 168 hours
Minimum Temperature	6-7	Every 24 hours, out to 168 hours
Quantitative Precipitation Amount	9-13	Every 6 hours out to 72 hours
Relative Humidity	33-41	Every 3 hours out to 72 hours; every 6 hours out to 168 hours
Significant Wave Height	17-21	Every 6 hours out to 120 hours
Sky Cover	33-41	Every 3 hours out to 72 hours; every 6 hours out to 168 hours
Snow Amount	5-9	Every 6 hours out to 48 hours
Temperature	33-41	Every 3 hours out to 72 hours; every 6 hours out to 168 hours
Weather	33-41	Every 3 hours out to 72 hours; every 6 hours out to 168 hours
Wind Direction	33-41	Every 3 hours out to 72 hours; every 6 hours out to 168 hours
Wind Gust	17-25	Every 3 hours out to 72 hours
Wind Speed	33-41	Every 3 hours out to 72 hours; every 6 hours out to 168 hours
Climate Outlook Probabilities - 12 separate elements:		
8- to 14-day Avg Temperature Above Normal	1	14 days (issued once daily)
8- to 14-day Avg Temperature Below Normal	1	14 days (issued once daily)
8- to 14-day Total Precipitation Above Median	1	14 days (issued once daily)
8- to 14-day Total Precipitation Below Median	1	14 days (issued once daily)
One-month Avg Temperature Above Normal	1	45 days (issued twice on 3rd Thurs of month)
One-month Avg Temperature Below Normal	1	45 days (issued twice 3rd Thurs each month)
One-month Total Precipitation Above Median	1	45 days (issued twice 3rd Thurs each month)
One-month Total Precipitation Below Median	1	45 days (issued twice 3rd Thurs each month)
Three-month Avg Temperature Above Normal	13*	375 days (issued twice 3rd Thurs each month)

Three-month Avg Temperature Below Normal	13*	375 days (issued twice 3rd Thurs each month)
Three-month Total Precipitation Above Median	13*	375 days (issued twice 3rd Thurs each month)
Three-month Total Precipitation Below Median	13*	375 days (issued twice 3rd Thurs each month)
Convective Outlook Hazard Probabilities - 9 separate elements:		
Convective Hazard Outlook	3	Days 1, 2, and 3
Probability of Tornadoes	1	Day 1
Probability of Hail	1	Day 1
Probability of Damaging Thunderstorm Winds	1	Day 1
Probability of Extreme Tornadoes	1	Day 1
Probability of Extreme Hail	1	Day 1
Probability of Extreme Thunderstorm Winds	1	Day 1
Total Probability of Severe Thunderstorms	2	Days 2 and 3
Total Probability of Extreme Severe Thunderstorms	2	Days 2 and 3
Probabilistic Tropical Cyclone Surface Wind Speeds - 6 separate elements:		
>34kts (incremental)	17-21	Every 6 hours out to 120 hours
>34kts (cumulative)	17-21	Every 6 hours out to 120 hours
>50kts (incremental)	17-21	Every 6 hours out to 120 hours
>50kts (cumulative)	17-21	Every 6 hours out to 120 hours
>64kts (incremental)	17-21	Every 6 hours out to 120 hours
>64kts (cumulative)	17-21	Every 6 hours out to 120 hours
* 13 issuances for months 1 - 3, months 2 - 4, months 3 - 5, ..., up to months 13 -15		