Status of NDGD Elements as of July 10, 2012

GFS MOS	CONUS	Puerto Rico	Hawaii	Guam	Alaska
Maximum	Operational	Not available	Experimental	Not available	Experimental
Temperature	since 8/15/2006		since 11/9/2010		since 6/10/2008
Minimum	Operational	Not available	Experimental	Not available	Experimental
Temperature	since 8/15/2006		since 11/9/2010		since 6/10/2008
Temperature	Operational	Not available	Experimental	Not available	Experimental
	since 8/15/2006		since 11/9/2010		since 6/10/2008
Dewpoint	Operational	Not available	Experimental	Not available	Experimental
	since 8/15/2006		since 11/9/2010		since 6/10/2008
Relative	Operational	Not available	Experimental	Not available	Experimental
Humidity	since 8/15/2006		since 11/9/2010		since 6/10/2008
Wind Direction	Operational	Not available	Experimental	Not available	Experimental
and Speed	since 8/15/2006		since 11/9/2010		since 12/16/2008
6-hour	Operational	Not available	Experimental	Not available	Experimental
Probability of	since 8/15/2006		since 11/9/2010		since 12/16/2008
Precipitation					
12-hour	Operational	Not available	Experimental	Not available	Experimental
Probability of	since 8/15/2006		since 11/9/2010		since 12/16/2008
Precipitation					
3-hour	Operational	Not available	Not available	Not available	Experimental
Probability of	since 8/15/2006				since 6/10/2008
Thunderstorms					
6-hour	Operational	Not available	Not available	Not available	Experimental
Probability of	since 8/15/2006				since 6/10/2008
Thunderstorms					
12-hour	Operational	Not available	Not available	Not available	Experimental
Probability of	since 8/15/2006				since 6/10/2008
Thunderstorms					
Wind Gust	Operational	Not available	Experimental	Not available	Experimental
	since 6/5/2007		since 11/9/2010		since 12/16/2008
Sky Cover	Operational	Not available	Under	Not available	Experimental
	since 6/5/2007		development		since 12/16/2008
6-hour	Operational	Not available	Under	Not available	Experimental
Quantitative	since 6/5/2007		development		since 1/12/2010
Precipitation					
Forecast	0 (1 1	NY	T. 1	NY . 11.11	T
12-hour	Operational	Not available	Under	Not available	Experimental
Quantitative	since 6/5/2007		development		since 1/12/2010
Precipitation					
Forecast	0 "	NT.4	NT.4	NT. (
24-hour Snowfall	Operational	Not available	Not available	Not available	Experimental
Amount	since 6/5/2007	NT.4	NT.4	NT. (since 1/12/2010
Weather	Under	Not available	Not available	Not available	Under
D., L. 12124 6	development	Nat assa'1.1.1.	Not available	Na4 and '1-1-1	development
Probability of	Under	Not available	inot available	Not available	Under
Frozen Precip	development	NT.4	NT.4	NT. 4	development
Probability of	Under	Not available	Not available	Not available	Under
Freezing Precip	development				development

LAMP	CONUS	Puerto Rico	Hawaii	Guam	Alaska
2-hour	Operational	Not available	Not available	Not available	Not available
Probability of	since 7/25/2006				
Thunderstorms					
2-hour	Operational	Not available	Not available	Not available	Not available
Thunderstorm	since 7/25/2006				
Best Category					
Temperature	Experimental since 9/28/2010	Not available	Not available	Not available	Not available
Dewpoint	Experimental since 9/28/2010	Not available	Not available	Not available	Not available
Ceiling Height	Experimental since 9/28/2010	Not available	Not available	Not available	Not available
Visibility	Experimental since 9/28/2010	Not available	Not available	Not available	Not available
LAMP Analysis	CONUS	Puerto Rico	Hawaii	Guam	Alaska
Temperature	Experimental since 9/28/2010	Not available	Not available	Not available	Not available
Dewpoint	Experimental since 9/28/2010	Not available	Not available	Not available	Not available
Ceiling Height	Experimental since 9/28/2010	Not available	Not available	Not available	Not available
Visibility	Experimental since 9/28/2010	Not available	Not available	Not available	Not available
Temperature	Experimental	Not available	Not available	Not available	Not available
Uncertainty	since 9/28/2010				
Dewpoint	Experimental	Not available	Not available	Not available	Not available
Uncertainty	since 9/28/2010				

Thour Average
Ozone Concentration
Shour Average Ozone
Ozone Concentration
Ozone Concentration
Concentration I-hour Average Surface Smoke Surface Smoke Surface Smoke Surface Smoke Surface Smoke Surface Smoke Since 2/28/2007 Not available Since 2/28/2007 Not available Since 2/28/2010 Since 9/21/2010 Since 10/11/2011 Since 10/11/20
Surface Smoke since 2/28/2007 Since 2/28/2010 Since 9/29/2
Surface Smoke since 2/28/2007 Since 2/28/2010 Since 9/21/2010 Since 9/21/2
T-hour Average Vertical Smoke Integration
Vertical Smoke Integration
Integration Daily Maximum 1-hour Average Ozone Concentration Daily Maximum S-hour Average Ozone Concentration Operational since 11/19/2009 Since 11/19/2009 Since 11/19/2009 Since 11/19/2009 Since 9/21/2010 Since 9/
Daily Maximum 1-hour Average Ozone Concentration Daily Maximum S-hour Average Ozone Concentration Daily Maximum S-hour Average Ozone Concentration Operational Since 11/19/2009 Not available Operational Since 9/21/2010 Since 9/21/2010 Not available Operational Since 9/21/2010 Since 9/21/2010 Operational Since 9/21/2010 Operational Since 9/21/2010 Operational Since 9/21/2010 Operational Since 1/31/2012 Operational Since 1/31/2011 Since 10/11/2011 Since 10/11/20
1-hour Average Ozone Concentration Daily Maximum Shour Average Ozone Concentration Operational Since 11/19/2009 Not available Operational Since 9/21/2010 Since 9/21/2010 Operational Since 11/19/2009 Since 9/21/2010 Operational Since 11/19/2009 Operational Since 11/19/2009 Operational Since 1/31/2012 Operational Shour Average Operational Shour Average Operational Since 1/31/2012 Operational Since 1/31/2012 Operational Since 1/31/2012 Operational Since 1/31/2012 Operational Since 10/11/2011 Since 10/11/201
Ozone ConcentrationDaily Maximum 8-hour Average Ozone ConcentrationOperational since 11/19/2009Not availableOperational since 9/21/2010Not availableOperational since 9/21/20101-hour Average Surface Dust ConcentrationOperational since 1/31/2012Not availableNot availableNot availableNot available8-hour Average Vertical Dust ConcentrationOperational since 1/31/2012Not availableNot availableNot availableNot availableRTMACONUSPuerto RicoHawaiiGuamAlaskaTemperatureOperational since 10/11/2011Operational since 10/11/2011
Concentration Daily Maximum S-hour Average Ozone Concentration
Daily Maximum S-hour Average Ozone Concentration
Section Since 1/19/2009 Since 9/21/2010 Since 9/21/2
Ozone ConcentrationOperational since 1/31/2012Not availableNot availableNot availableSurface Dust ConcentrationOperational since 1/31/2012Not availableNot availableNot available8-hour Average Vertical Dust ConcentrationOperational since 1/31/2012Not availableNot availableNot availableRTMACONUSPuerto RicoHawaiiGuamAlaskaTemperatureOperational since 10/11/2011Operational since 10/11/2011
Not available Not availabl
Not available Not availabl
Surface Dust Concentration 8-hour Average Vertical Dust Concentration RTMA CONUS Puerto Rico Puerto Rico Puerto Rico Puertional Since 10/11/2011
Not available Not availabl
Not available Not availabl
Since 1/31/2012 Since 1/31/2013 Since 1/31/2013 Since 1/31/2014 Since 1/31
RTMA CONUS Puerto Rico Hawaii Guam Alaska Temperature Operational since 10/11/2011 Dewpoint Operational since 10/11/2011 si
RTMA CONUS Puerto Rico Hawaii Guam Alaska Temperature Operational since 10/11/2011 Dewpoint Operational since 10/11/2011 si
TemperatureOperational since 10/11/2011Operational since 10/11/2011Sky CoverOperational Operational since 10/11/2011Not availableNot availableNot availableNot available
Since 10/11/2011 Since 10/11
DewpointOperational since 10/11/2011Operational since 10/11/2011Operational since 10/11/2011Operational since 10/11/2011Operational since 10/11/2011Operational since 10/11/2011Operational since 10/11/2011Sky CoverOperationalNot availableNot availableNot availableNot available
since 10/11/2011 since 10/11/2011 since 10/11/2011 since 10/11/2011 since 10/11/2011 since 10/11/2011 Sky Cover Operational Not available Not available Not available Not available Not available
Sky Cover Operational Not available Not available Not available Not available
since 10/11/2011
Wind Direction Operational Operational Operational Operational Operational
and Speed since 10/11/2011 since 10/11/2011 since 10/11/2011 since 10/11/2011 since 10/11/2011
1-hour Operational Not available Not available Not available Not available
Precipitation since 10/11/2011
Amount
Surface Pressure Operational Operational Operational Operational Operational
since 10/11/2011 since 10/11/2011 since 10/11/2011 since 10/11/2011 since 10/11/2011
Temperature Operational Operational Operational Operational Operational
Uncertainty since 10/11/2011
Dewpoint Operational Operational Operational Operational Operational
Uncertainty since 10/11/2011 since 10/11/2011 since 10/11/2011 since 10/11/2011 since 10/11/2011
Wind Direction Operational Operational Operational Operational Operational
and Speed since 10/11/2011 since 10/11/2011 since 10/11/2011 since 10/11/2011
Uncertainty
Surface Pressure Operational Operational Operational Operational Operational
Duriuce regione Operanonar Operanonar Operanonar Operanonar Operanonar Operanonar

SLOSH	CONUS	Puerto Rico	Hawaii	Guam	Alaska
Probability of	Operational	Not available	Not available	Not available	Not available
hurricane storm	_				
surge >					
■ 2 feet	since 6/01/2011				
 3 feet 	since 6/01/2011				
 4 feet 	since 6/01/2011				
 5 feet 	since 6/01/2011				
6 feet	since 6/01/2011				
 7 feet 	since 6/01/2011				
8 feet	since 6/01/2011				
 9 feet 	since 6/01/2011				
 10 feet 	since 6/01/2011				
 11 feet 	since 6/01/2011				
■ 12 feet	since 6/01/2011				
■ 13 feet	since 6/01/2011				
■ 14 feet	since 6/01/2011				
■ 15 feet	since 6/01/2011				
 16 feet 	since 6/01/2011				
 17 feet 	since 6/01/2011				
 18 feet 	since 6/01/2011				
 19 feet 	since 6/01/2011				
 20 feet 	since 6/01/2011				
■ 21 feet	since 6/01/2011				
■ 22 feet	since 6/01/2011				
 23 feet 	since 6/01/2011				
 24 feet 	since 6/01/2011				
■ 25 feet	since 6/01/2011				
Exceedance	Operational	Not available	Not available	Not available	Not available
hurricane storm	o per unional	1,00 a, anao10	1 (00 a) anaoro	1 (00 4) 4114010	1100 41 4114010
surge height					
■ 10%	since 6/01/2011				
20%	since 6/01/2011				
30%	since 6/01/2011				
40%	since 6/01/2011				
■ 50%	since 6/01/2011				
• 60%	since 6/01/2011				
■ 70%	since 6/01/2011				
80%	since 6/01/2011				
90%	since 6/01/2011				
20,0	2011				
Extratropical	Experimental	Not available	Not available	Not available	Experimental
storm surge	since 10/21/008				since 10/21/2008
height	3.22.23				
8					
	1	1		1	

Ensemble Kernel					
Density MOS	CONUS	Puerto Rico	Hawaii	Guam	Alaska
Maximum	Experimental	Not available	Under	Not available	Experimental
Temperature	since 3/31/2012		development		since 3/31/2012
CDF05			•		
■ CDF10					
■ CDF20					
■ CDF30					
■ CDF40					
■ CDF50					
■ CDF60					
■ CDF70					
■ CDF80					
■ CDF90					
■ CDF95					
■ Mean					
Minimum	Experimental	Not available	Under	Not available	Experimental
	since 3/31/2012	Not available		Not available	since 3/31/2012
Temperature - CDF05	Since 3/31/2012		development		Since 3/31/2012
• CDF05					
• CDF20					
CDF30					
CDF40					
■ CDF50					
■ CDF60					
■ CDF70					
■ CDF80					
■ CDF90					
■ CDF95					
Mean					
Temperature	Experimental	Not available	Under	Not available	Experimental
■ CDF05	since 3/31/2012		development		since 3/31/2012
■ CDF10					
■ CDF20					
■ CDF30					
■ CDF40					
■ CDF50					
■ CDF60					
■ CDF70					
■ CDF80					
■ CDF90					
■ CDF95					
Mean					
Dewpoint	Experimental	Not available	Under	Not available	Experimental
■ CDF05	since 3/31/2012		development		since 3/31/2012
■ CDF10			•		
■ CDF20					
■ CDF30					
■ CDF40					
■ CDF50					
■ CDF60					
■ CDF70					
■ CDF80					
■ CDF90					
• CDF90					

■ CDF95					
Mean					
6-hour Quantitative	Under	Not available	Under	Not available	Under
Precipitation Forecast	development		development		development
■ Pr>=0.05"					
■ Pr>=0.10"					
■ Pr>=0.20"					
■ Pr>=0.25"					
■ Pr>=0.30"					
■ Pr>=0.40"					
■ Pr>=0.50"					
■ Pr>=0.75"					
■ Pr>=1.00"					
■ Pr>=1.50"					
Mean					
Downscaled					
Numerical Guidance					
	CONUS	Puerto Rico	Hawaii	Guam	Alaska
1-hour UV Index	Operational	Not available	Not available	Not available	Not available
	since 7/10/2012				
Daily Maximum UV	Operational	Not available	Not available	Not available	Not available
Index	since 7/10/2012				
Down-welling	Operational	Not available	Not available	Not available	Not available
shortwave radiation	since 7/10/2012				
flux					
Haines Index	Under	Not available	Not available	Not available	Not available
• Low	development				
• Mid					
 High 					
Mixing Height	Under	Not available	Not available	Not available	Not available
	development				
Transport Wind	Under	Not available	Not available	Not available	Not available
					1
Direction and Speed	development				
Direction and Speed Ventilation Rate	development Under	Not available	Not available	Not available	Not available