MDSS Functional Prototype Demonstration Weather Case

11 April 2002
MDSS FP
Route Locations
MDSS prediction is for 48 hr period based on data available from the Saturday 23 February, 7 am model runs.

NWS Forecast (Noon, Sat, 23rd)

NWS Forecast (10 am, Sun, 24th)

MDSS Forecast (7 am, Sat 23rd)

2am Snow Period Sunday Storm 2am
CITIES OF...ALEXANDRIA...ST CLOUD

TONIGHT...SNOW DEVELOPING AFTER MIDNIGHT. A PERIOD OF FREEZING RAIN POSSIBLE. LOWS IN THE MIDDLE 20S. WIND BECOMING NORTHEAST AT 15 TO 20 MPH. CHANCE OF PRECIPITATION 60 PERCENT.

SUNDAY...SNOW LIKELY IN THE MORNING...THEN TAPERING TO FLURRIES BY THE AFTERNOON. TOTAL ACCUMULATIONS 1 TO 2 INCHES. BLUSTERY AND COLDER WITH STEADY TEMPERATURES IN THE MIDDLE 20S. NORTH WIND 15 TO 25 MPH. CHANCE OF SNOW 60 PERCENT.

SUNDAY NIGHT...MOSTLY CLOUDY AND BLUSTERY WITH SCATTERED SNOW SHOWERS. LOWS AROUND 10 ABOVE.
CITIES OF...BENSON...MONTEVIDEO...REDWOOD FALLS...WILLMAR

TONIGHT...RAIN MIXED WITH SNOW DEVELOPING AFTER MIDNIGHT...CHANGING TO ALL SNOW BY DAYBREAK. A PERIOD OF FREEZING RAIN POSSIBLE. LOWS IN THE UPPER 20S. WIND BECOMING NORTHEAST AT 15 TO 20 MPH. CHANCE OF PRECIPITATION 60 PERCENT.

SUNDAY...SNOW LIKELY IN THE MORNING...THEN TAPERING TO FLURRIES. TOTAL ACCUMULATIONS 1 TO 2 INCHES. BLUSTERY AND COLDER WITH STEADY TEMPERATURES IN THE MIDDLE 20S. NORTH WIND 15 TO 25 MPH. CHANCE OF SNOW 60 PERCENT.

SUNDAY NIGHT...MOSTLY CLOUDY WITH A 40 PERCENT CHANCE OF SNOW. LOWS 10 TO 15 ABOVE.
CITY OF...ALEXANDRIA

...WINTER WEATHER ADVISORY THIS AFTERNOON...
THIS AFTERNOON...SNOW CONTINUING...DECREASING TO FLURRIES BY LATE AFTERNOON. TOTAL ACCUMULATIONS 3 TO 5 INCHES. TEMPERATURES FALLING THROUGH THE 20S. NORTH WIND 15 TO 30 MPH.
.TONIGHT...MOSTLY CLOUDY WITH A 40 PERCENT CHANCE OF LIGHT SNOW. LOWS FROM 10 TO 15. NORTHWEST WIND 15 TO 20 MPH.
CITIES OF...BENSON...MONTEVIDEO...REDWOOD FALLS...WILLMAR

...WINTER WEATHER ADVISORY THIS AFTERNOON...
.THIS AFTERNOON...SNOW...POSSIBLY MIXED WITH SLEET OR RAIN EARLY.
ACCUMULATIONS OF 3 TO 5 INCHES. TEMPERATURES FALLING INTO THE 20S.
NORTH WIND 15 TO 30 MPH.
.TONIGHT...MOSTLY CLOUDY AND COLDER WITH A 30 PERCENT CHANCE OF LIGHT SNOW. LOWS IN THE TEENS. WIND NORTHWEST 15 TO 20 MPH....
Surface winds were primarily from the north to northeast as the low approached from the southwest.

Sunday Morning
A winter storm moved through central MN.

Sunday Noon

GOES-8 Imagery - 20020224/1739
The precipitation primarily fell in central MN.

Sunday Morning
Surface Weather

Surface low temperatures ranged from 14 to 32 F.

Sunday Morning
Total precipitation from the Eta model (alone) ranged from zero to ~1.2 inches (liquid) or zero to ~12 inches of snow.

Sat through Sun
Precipitation Verification*

*From untrained MDSS
MDSS FP

Sample of enhanced time series graphic