

SDF issued at 2120UT 25 NOV 86

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 329

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 25 NOV 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/2100Z TO 25/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4759 (S28) CONTINUED TO PRODUCE SURGING AS IT ROTATED AROUND THE WEST LIMB. REGIONS 4757 (N24W69) AND 4758 (N28W86) CONTINUE TO BE QUIET AND SPOTLESS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 24/2100Z TO 25/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MINOR TO MAJOR STORM LEVELS THROUGHOUT THE DAY. THIS ACTIVITY MAY HAVE BEEN CAUSED BY A DISAPPEARING FILAMENT. THE FILAMENT WAS OBSERVED TO DISAPPEAR AT ABOUT 0900Z ON 20 NOVEMBER. A C1 PARALLEL RIBBON FLARE WAS OBSERVED SHORTLY AFTERWARD (AT 0916) WITH A TWO HOUR LONG DURATION X-RAY EVENT. A TYPE III RADIO SWEEP WAS REPORTED A FEW HOURS LATER AT 20/1400UT. IN ADDITION TO THIS 10830 HELIUM OBSERVATIONS ON 21 NOVEMBER SUGGEST THAT A CORONAL HOLE WAS NEAR THE REGION AT THE TIME. THUS THE STORM MAY HAVE ORIGINATED FROM THE COMBINED EFFECTS OF A DYNAMIC DSF AND THE NEARBY CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS WITH PERIODS OF MAJOR STORM CONDITIONS AT HIGH LATITUDES FOR 26 NOVEMBER. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR 27-28 NOVEMBER

III. EVENT PROBABILITIES 26 NOV-28 NOV

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 NOV 078

PREDICTED 26 NOV-28 NOV 077/076/076

90 DAY MEAN 25 NOV 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 NOV 026/068

ESTIMATED AFR/AP 25 NOV 035/090

PREDICTED AFR/AP 26 NOV-28 NOV 020/040-005/015-010/015