

HFUS 1 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 265

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 22 SEPT 1978

IA. SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL FOR THE PAST 24 HOURS WITH ONLY SMALL C FLARE EVENTS BEING RECORDED. OPTICAL CONFIRMATION OF THESE EVENTS HAVE BEEN LIMITED DUE TO WEATHER AND EQUIPMENT PROBLEMS, HOWEVER, SOME OF THESE HAVE BEEN CORRELATED WITH POINT BRIGHTENINGS IN 1304 (N27E45) AND 1294 (N35W43). AN ERUPTIVE PROMINENCE WAS REPORTED ON THE WEST LIMB NEAR N10 AT 1700Z. OTHERWISE THE LIMBS AND DISK FEATURES ARE STABLE OR DECLINING.

IB. THE LOW LEVEL OF SOLAR ACTIVITY SHOULD CONTINUE THRU THE FORECAST PERIOD. ENERGETIC EVENTS ARE POSSIBLE MAINLY FROM THE NW REGIONS, HOWEVER, THESE ARE EXPECTED TO BE INFREQUENT. NEW REGIONS IN THE EAST WILL CONTINUE TO DEVELOP AND PRODUCE SMALL EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THE PAST 24 HOURS. AN INCREASE IN ACTIVITY IS EXPECTED THRU THE NEXT 2 DAYS. A RECURRANCE DISTURBANCE IS EXPECTED IN ABOUT 1 WEEK FROM THE CORONAL HOLE NOW LOCATED NEAR N15E40.

III. EVENT PROBABILITIES 23 - 25 SEPT

CLASS M 80/75/70

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 SEPT 178

PREDICTED 23 - 25 SEPT 176/172/166

90-DAY MEAN 22 SEPT 136

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 SEPT 06

ESTIMATED AFR/AP 22 SEPT 10/14

PREDICTED AFR/AP 23 - 25 SEPT 14/24 - 20/20 - 10/16

SOLTERWARN

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SDF NUMBER 265

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 22 SEPTEMBER 1979

IA. SOLAR ACTIVITY HAS REMAINED HIGH. REGION 1994 (N05W08) PRODUCED  
AN M9/1B FLARE ON 21/2356 U.T. (MAX) WITH A 210 F.U. AT 10 CM RADIO  
BURST. ON 22/0238 UT (MAX) REGION 1994 PRODUCED AN X1/1B  
FLARE WITH ASSOCIATED SHORT WAVE FADES; HOWEVER THIS FLARE WAS  
RADIO POOR. A SUDDEN DISAPPEARING FILAMENT OCCURRED BETWEEN 1530 UT -  
2000 FROM APPROX S22-28, W39; NO APPARENT X-RAY INCREASES WERE  
EVIDENT FROM THE EVENT. REGION 1994 IS AN F-TYPE BETA GAMMA DELTA OF  
A HIGHLY COMPLEX NATURE. FIVE NEW REGIONS WERE IDENTIFIED WITH  
REGION 2009 (S13E32) DEVELOPING MOST RAPIDLY. A STRONG SURGING  
REGION IS SEEN ABOUT NE15, EL AND MAY BE RETURNING REGION 1958.

IB. SOLAR ACTIVITY IS EXPECTED TO BE HIGH OVER THE NEXT 24 HOURS.  
REGION 1994 STILL REMAINS A POTENT THREAT FOR X-CLASS X-RAY EVENTS  
AND HAS MOVED INTO A FAVORABLE LOCATION FOR PROTONS AND GEO-  
MAGNETIC EFFECTS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE LAST 24 HOURS.  
IT IS EXPECTED TO REACH ACTIVE LEVELS DURING THE NEXT PERIOD. THE  
PROTON FLUX HAS DROPPED TO 6 PARTICLES DURING THIS LAST PERIOD  
AND, THEREFORE, HAS DROPPED BELOW EVENT CRITERIA.

III. EVENT PROBABILITIES 23 - 25 SEPTEMBER 79

CLASS M 90/90/90

CLASS X 60/60/60

PROTON 60/60/60

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 SEPTEMBER 215

PREDICTED 23 - 25 SEPTEMBER 214/213/212

90-DAY MEAN 22 SEPTEMBER 176

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 SEPTEMBER 16

ESTIMATED AFR/AP 22 SEPTEMBER 10/15

PREDICTED AFR/AP 23 - 25 SEPTEMBER 20/20 15/15 15/15

SOLTERWARN

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