

HFUS 1 BDU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 150

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 30 MAY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. SEVERAL SMALL C-CLASS X-RAY FLARES HAVE BEEN REPORTED, HOWEVER, ONLY ONE OPTICAL FLARE HAS BEEN SEEN, A SN FROM 1774 (N16E52) WHICH OCCURRED AT 2155 UT ON 29 MAY 1979. A C2 CLASS X-RAY WAS REPORTED AT 1932 U.T. AND IS BELIEVED TO HAVE COME FROM BEHIND THE LIMB AT NE19 WHERE STRONG SURGING IS BEING REPORTED, THIS MAY BE RETURNING REGION 1743 WHICH PRODUCED AN M-CLASS X-RAY EVENT LAST ROTATION. SOME MINOR SURGING IS ALSO BEING REPORTED AT SE20. REGION 1774 IS SHOWING CONTINUED GROWTH AND IS A BETA GAMMA. NEW REGIONS 1776 (N10W54) AND 1777 (S17E50) BOTH SHOW ARCH FILAMENTS AND ARE SIMPLE B-TYPE GROUPS.

IB. SOLAR ACTIVITY WILL REMAIN LOW DURING THE FORECAST PERIOD. HOWEVER ACTIVITY SHOULD SHOW AN INCREASE WITH THE RETURN OF SEVERAL ACTIVE REGIONS TO THE VISIBLE DISK.

II. THE MINOR STORM ENDED AT 0700 U.T. WHEN THE GEOMAGNETIC FIELD RETURNED TO UNSETTLED CONDITIONS. THE GEOMAGNETIC FIELD IS EXPECTED TO CONTINUE AT THE UNSETTLED LEVEL UNTIL NEAR THE END OF THE FORECAST PERIOD WHEN THE FIELD IS FORECAST TO BE QUIET.

III. EVENT PROBABILITIES 31 MAY - 02 MAY JUNE

CLASS M 20/30/40

CLASS X 05/05/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 MAY 154

PREDICTED 31 MAY - 02 JUNE 158/160/164

90-DAY MEAN 30 MAY 176

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 MAY 39

ESTIMATED AFR/AP 30 MAY 15/14

PREDICTED AFR/AP 31 MAY - 02 JUNE 10/10 - 08/08 - 06/07

SOLTERWARN

BT