

HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 029

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 JANUARY 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
SEVERAL SMALL C-CLASS EVENTS HAVE BEEN REPORTED. THE LARGEST EVENTS
HAVE BEEN A M1/SB FROM REGION 2259 (N05E36) AT 0952 U.T. AND A SLOW
RISE M3 WHICH STARTED AT 1640 U.T. MAXIMUM AT 1749 U.T. WITH THE
END APPROXIMATELY 1841 U.T. A SN FLARE FROM REGION 2266 (S15E76)
WAS REPORTED WITH THE START OF THE EVENT HOWEVER, DURING MAXIMUM
REGION 2266 WAS BELOW FLARE LEVELS. THE POSSIBILITY OF A FLARE
BEHIND THE LIMB, POSSIBILITY FROM OLD REGION 2245, IS QUITE HIGH.
THE ONLY NEW REGION TODAY IS 2266, A C-TYPE, HOWEVER LIMB PROXIMITY
PREVENTS DETAILED ANALYSIS. REGIONS 2259, 2262 AND 2266 ALL
APPEAR CAPABLE OF PRODUCING M-CLASS X-RAY EVENTS. POOR WEATHER
CONDITIONS HAVE HAMPERED OBSERVATIONS AT MOST OBSERVING STATIONS.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS DURING
THE FORECAST PERIOD. THE E-W DRIFT SCAN CONTINUES TO INDICATE NEW
REGIONS SHOULD BE ROTATING ON TO THE DISK.

II. THE GEOMAGNETIC FIELD HAS BEEN AT OR NEAR ACTIVE LEVELS DURING
THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED DURING
THE NEXT 48 HOURS THEN BECOME NEAR QUIET LEVELS THE LAST 24 HOURS.

III. EVENT PROBABILITIES 30 JAN - 01 FEB

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 JAN 203

PREDICTED 30 JAN 01 FEB 207/214/222

90-DAY MEAN 29 JAN 215

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 JAN 22

ESTIMATED AFR/AP 29 JAN 17/18

PREDICTED AFR/AP 30 JAN-01 FEB 13/15 10/10 07/07

SOLTERWARM

BT