

HFUS 1 BOU 122200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 012

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 12 JANUARY 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.
THE MOST SIGNIFICANT ACTIVITY WAS A M2/1N EVENT FROM REGION 2221
(N16W73). ALSO C AND M-CLASS X-RAYS FROM UNKNOWN ORIGIN HAVE BEEN
OBSERVED DURING MOST OF THE UT DAY. THESE EVENTS ARE POSSIBLY FROM
REGION 2232 (S12W29) WHICH IS THE MOST COMPLEX REGION PRESENTLY
ON THE SOLAR DISK. SUBFLARES HAVE ALSO BEEN OBSERVED FROM THE
FOLLOWING REGIONS - REGIONS 2229 (N20W54), REGION 2237 (N10E27)
AND REGION 2223 (S14W69). DUE TO WEATHER AND EQUIPMENT PROBLEMS
AT OBSERVING SITES, DETAILS OF OTHER DISK AND LIMB FEATURES HAVE
NOT BEEN AVAILABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE TO BE MODERATE WITH
THE HIGH PROBABILITY OF M-CLASS EVENTS AND THE POSSIBILITY OF AN
X-CLASS EVENT. FIVE OF THE EIGHT REGIONS PRESENTLY LOCATED IN
WESTERN LONGITUDES OF THE SOLAR DISK HAVE HIGH FLARE POTENTIALS.
IN ORDER OF DECREASING FLARE POTENTIAL THERE ARE: REGION 2232,
REGION 2229, REGION 2228 (N15W35), REGION 2221 AND REGION 2240
(N26W21).

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24
HOURS AND IS EXPECTED TO CONTINUE TO BE UNSETTLED THROUGH 13
JAN. IT WILL BECOME ACTIVE ON 14 JAN AND RETURN TO UNSETTLED
CONDITIONS ON 15 JAN.

III. EVENT PROBABILITIES 13 JAN - 15 JAN

CLASS M 90/90/90

CLASS X 25/25/25

PROTON 25/20/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 JAN 258

PREDICTED 13 JAN - 15 JAN 252/243/234

90-DAY MEAN 12 JAN 222

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 11 JAN 10

ESTIMATED AFR/AP 12 JAN 08/06

PREDICTED AFR/AP 13 JAN - 15 JAN 13/17 25/30 15/16

SOLTERWARN

BT