

HFUS 180U 142200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 045

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 14 FEBRUARY 1979

IA. SOLAR ACTIVITY REMAINS MODERATE. AN M3/SB FLARE WAS
OBSERVED FROM RGN 1556 (N15W75) ON 14/1548 UT AND WAS
ACCOMPANIED BY A BRIGHT SURGE AND SHORT WAVE FADES; HOWEVER
VERY LITTLE RADIO BURSTS WERE APPARENT. RGN 1574 (N16E61) HAS
HAD SEVERAL SMALL FLARES AND SUBFLARES WITH AN M1 X-RAY
FLARE ON 14/0107 U.T. RGN 1568 (N19E37) HAS HAD MINOR
ACTIVITY WITH SEVERAL SUBFLARES HAVING OCCURRED DURING THE
PERIOD. RGN 1573 (S16E47) IS APPARENTLY GROWING AND IN-
CREASING IN ACTIVITY WITH FLUCTUATIONS TO NEAR FLARE AND
A STRONG ARCH FILAMENT SYSTEM. RGN 1574 COULD BE A POSSIBLE
DELTA MAGNETIC CONFIGURATION.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE. RGN 1556 (N15W83)
AND 1574 (16E61) ARE POTENTIALLY CAPABLE OF PRODUCING
ENERGETIC EVENTS. OLD RGN 1525 WHICH PRODUCED 27 FLARES ON
LAST ROTATION SHOULD BE RETURNING AT APPROX. NE 15-20;
SURGING AT NE 15 AND SE 25 WOULD INDICATE THE APPROACH OF AN
ACTIVE LONGITUDE.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST 24
HOURS. THIS FIELD SHOULD REMAIN QUIET TO UNSETTLED FOR THE
NEXT PERIOD.

III. EVENT PROBABILITIES 15-17 FEBRUARY 1979

CLASS M 90/90/90

CLASS X 15/10/10

PROTON 15/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 FEB 229

PREDICTED 15-17 FEB 210/215/221

90-DAY MEAN 14 FEB 186

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 FEB 02

ESTIMATED AFR/AP 14 FEB 03/05

PREDICTED AFR/AP 15-17 FEB 08/11 - 09/13 - 10/14

SOLTERWARR

BT