

HFJUS 1 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 042

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 11 FEBRUARY 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. REGION 1556 (N15W40) CONTINUES TO GROW IN AREA AND COMPLEXITY AND PRODUCED A B/M3 FLARE AT 1244Z. REGION 1555 (S22W38) HAS DECAYED SOMEWHAT AND NEW REGION 1565 (S17W41) HAS DEVELOPED IN THE AREA. PRESENTLY, BOTH OF THESE REGIONS ARE C-TYPE SPOT GROUPS. REGION 1560 (S16E10) REMAINS A REVERSE POLARITY GROUP AND THE BIPOLAR REGION WHICH EMERGED TO THE NORTH OF THE LARGE LEADER SPOT HAS DEVELOPED INTO A D-TYPE SPOT GROUP. THIS NEW REGION HAS BEEN NUMBERED 1566 (S13E08). NEW REGION 1567 (S10E32) IS A SMALL B-TYPE GROUP. THE MAGNETIC FIELDS IN THE GENERAL AREA OF THESE REGIONS CONTINUE TO SHOW DEVELOPMENT; INDICATING THE POSSIBLE FUTURE EMERGENCE OF NEW SPOTTED REGIONS. NEW REGION 1568 (N19E78) APPEARS TO BE AN E-TYPE GROUP AND IS RETURNING SESC REGION 1519. THIS REGION PRODUCED 27 OPTICAL FLARES AND ONE M-CLASS X-RAY EVENT LAST ROTATION.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS FOR THE NEXT 24 HOURS. REGION 1556 IS COMPLICATED AND POSSESSES A HIGH POTENTIAL FOR ENERGETIC EVENTS. THE DEVELOPING AREA SURROUNDING REGION 1560 AND RETURNING REGION 1568 MAY ALSO BE SITES OF ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED WITH QUIET PERIODS FOR THE LAST 24 HOURS. THESE CONDITIONS ARE EXPECTED TO CONTINUE FOR THE NEXT 24 HOURS WITH THE GEOMAGNETIC FIELD BECOMING GENERALLY QUIET FOR THE REMAINDER OF THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 12-14 FEBRUARY

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 FEB 210

PREDICTED 12-14 FEB 212/214/216

90-DAY MEAN 11 FEB 183

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 10 FEB 03

ESTIMATED AFR/AP 11 FEB 07/08

PREDICTED AFR/AP 12-14 FEB 10/10 - 07/14 - 07/12

SOLTERWARN

BT