

HFUS 1 BOUL 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 740

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 09 FEBRUARY 1979

I A. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST 24 HOURS. REGION 1556 (N16W09) HAS SHOWN CONTINUED GROWTH IN SUNSPOT NUMBER AND MAGNETIC COMPLEXITY AND PRODUCED A 1N/M3 FLARE AT 0757Z. THIS REGION HAS ALSO PRODUCED SEVERAL OPTICAL SUBFLARES AND C-CLASS XRAY EVENTS. REGION 1445 (N08W25) IS CROSSING THE WEST LIMB AT THIS TIME AND PRODUCED AN M1 X-RAY EVENT AT 1921Z (NO OPTICAL FLARE OBSERVED). REGION 1555 (S20W12) HAS SIMPLIFIED SOMEWHAT IN MAGNETIC COMPLEXITY AND HAS ONLY PRODUCED OPTICAL SUBFLARES AND SMALL C-CLASS X-RAY EVENTS. REMAINING REGIONS ARE MAGNETICALLY SIMPLE AND HAVE PRODUCED LITTLE ACTIVITY.

I B. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS FOR THE NEXT 24 HOURS. INCREASING COMPLEXITY IN REGION 1556 MAKE IT THE MOST LIKELY CANDIDATE FOR ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS. QUIET CONDITIONS ARE EXPECTED TO CONTINUE FOR MOST OF THE FORECAST PERIOD. UNSETTLED CONDITIONS ARE EXPECTED TOWARDS THE END OF THE FORECAST PERIOD AS THE GEOMAGNETIC FIELD RESPONDS TO A SOLAR SECTOR BOUNDARY.

III. EVENT PROBABILITIES 10 - 12 FEBRUARY

CLASS M 9/9/9/9

CLASS X 15/15/15

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 FEBRUARY 204

PREDICTED 10-12 FEBRUARY 204/210/212

9-DAY MEAN 09 FEBRUARY 182

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 08 FEBRUARY 26

ESTIMATED AFR/AP 09 FEBRUARY 26/39

PREDICTED AFR/AP 10-12 FEBRUARY 26/08 - 26/29 - 10/15

SOLTERWARNS

BT

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