

HFUS 1-BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 300

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 27 OCTOBER 1978

I A. SOLAR ACTIVITY WAS LOW OVER THE PAST 24 HOURS. BRIGHT POINTS AND A NEUTRAL LINE FILAMENT BETWEEN REGIONS 1366 AND 1369, REPORTED AT S 16E30 AND S 18E49 VALID 26/2400Z, SUGGESTED THAT THESE WERE ONE REGION. THIS IS SUPPORTED BY THE LATEST MAGNETOGRAM DATA. THE TWO REGIONS ARE NOW COMBINED AS REGION 1366 (S 19E25). THERE WERE ONLY SEVERAL C1/C2 X-RAY FLARES REPORTED DURING THE PERIOD.

I B. REGION 1355 (N26W44) AND REGION 1365 (N18E10) ARE CONSIDERED POTENTIAL PRODUCERS OF MODERATELY ENERGETIC FLARES; HOWEVER THE SOLAR ACTIVITY SHOULD REMAIN PREDOMINATELY LOW OVER THE NEXT FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE PROBABLY DUE TO THE PASSAGE OF A CORONAL HOLE. THIS ACTIVITY IS EXPECTED TO DECAY OVER THE NEXT 24-36 HOURS BUT SHOULD REMAIN AT UNSETTLED LEVELS DURING THE NIGHTTIME 40 HOURS AT LOWER LATITUDES. HIGHER LATITUDES SHOULD EXPERIENCE UNSETTLED LEVELS WITH ACTIVE PERIODS INTERSPersed DURING THE NEXT 24-48 HOURS.

III. EVENT PROBABILITIES 28 OCTOBER - 30 OCTOBER

CLASS M 30/30/40

CLASS X 25/10/10

PROTON 25/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 OCTOBER 153

PREDICTED 28 - 30 OCTOBER 152/152/152

90-DAY MEAN 27 OCTOBER 144

V. GEOMAGNETIC ALINDICES

OBSERVED FREDERICKSBURG 26 OCTOBER 16

ESTIMATED AFR/AP 27 OCTOBER 20/29

PREDICTED AFR/AP 28 - 30 OCTOBER 15/28 - 10/25 - 10/20

SOLTERWARN

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IA. SOLAR ACTIVITY HAS BEEN LOW OVER THE PAST 24 HOURS. THE LARGEST EVENT THIS PERIOD WAS A C3 X-RAY EVENT OBSERVED AT 27/0103Z (MAX) WITH NO OPTICALLY CORRELATED FLARE REPORTED. REGION 2078 (S17W12) HAS BEEN MOSTLY STABLE; HOWEVER IT REMAINS A MODERATELY LARGE E-TYPE SPOT GROUP. REGION 2074 (S22W10) AND 2078 INTERACTIVELY SEEM TO FORM A BETA GAMMA DELTA COMPLEX WITH THE DELTA SEEN IN THE TRAILER OF 2078.

REGION 2084 (N18E70) IS A LARGE F-TYPE SPOT GROUP WITH PI BRIGHTENINGS TO NEAR FLARE THAT IS NOW ROTATING ON TO THE DISK.

IB. SOLAR ACTIVITY SHOULD BE GENERALLY LOW OVER THE NEXT 24 HOURS. REGION COMPLEX 2074/2078 AND REGION 2084 DO HAVE THE POTENTIAL TO PRODUCE AN ISOLATED M-CLASS X-RAY FLARE. THE OTHER REGIONS APPEAR RELATIVELY INSIGNIFICANT AND SHOULD NOT PRODUCE OTHER THAN LOW C-CLASS FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO SLIGHTLY UNSETTLED LEVELS DURING THE LAST 24 HOURS. THE LEVELS HAVE INCREASED SLIGHTLY DURING THE LAST FEW HOURS OF THE PERIOD, AND IS FORECAST TO REMAIN AT UNSETTLED LEVELS DURING THE NEXT PERIOD.

III. EVENT PROBABILITIES 28 - 30 OCTOBER

CLASS M 40/50/50

CLASS X 05/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 OCTOBER 214

PREDICTED 28 - 30 OCTOBER 216/218/218

50-DAY MEAN 27 OCTOBER 197

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 26 OCTOBER 07

ESTIMATED AFR/AP 27 OCTOBER 08/09

PREDICTED AFR/AP 28 - 30 OCTOBER 08/10 08/08 10/10

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