

HFUS 1 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 287

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 14 OCT 1978

IA. SOLAR ACTIVITY WAS MODERATE DURING THE PAST 24 HOURS WITH THREE M1 X-RAY FLARES WHICH MAXED NEAR 14/0657Z, 14/1249Z, AND 14/2128Z, RESPECTIVELY. THERE WERE NO OPTICAL REPORTS WITH THESE EVENTS. REGION 1332 (S27W88) HAS NEARLY ROTATED BEHIND THE WEST LIMB AND HAS DISPLAYED SOME MINOR SURGE ACTIVITY. THE M-1 EVENT WHICH MAXED NEAR 2128Z HAD A PROFILE WHICH IS TYPICAL OF BEHIND THE LIMB EVENTS. REGION 1346 (S20W12), AN E-TYPE (BETA GAMMA MAGNETICALLY) GROUP, APPEARS TO BE THE MOST IMPRESSIVE DISK REGION, BUT REGIONS 1333 (N15W39) AND 1348 (S20E27) HAVE SHOWN SIGNIFICANT GROWTH. THE OTHER DISK REGIONS WERE GENERALLY STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY MODERATE DURING THE NEXT 24 HOURS WITH CONTINUED M-CLASS FLARE ACTIVITY.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BECOME DISTURBED TO ACTIVE TO MINOR STORM LEVELS DURING THE NEXT 24 HOURS AND REMAIN GENERALLY ACTIVE THROUGH 17 OCTOBER.

III. EVENT PROBABILITIES 15 OCT - 17 OCT

CLASS M 75/75/75

CLASS X 25/25/25

PROTON 25/25/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 OCT 181

PREDICTED 15 - 17 OCT 180/180/180

90-DAY MEAN 14 OCT 137

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 OCT 07

ESTIMATED AFR/AP 14 OCT 05/08

PREDICTED AFR/AP 15 - 17 OCT 25/25 - 25/20 - 15/15

SOLTERWARN

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SDF NUMBER 287

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

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS.
AN M2/2B FLARE FROM REGION 2032 (N15W62) MAXED AT 0155 UT, AND
A C9/SB FLARE FROM REGION 2058 (N26E73) MAXED AT 1318 UT.
SIGNIFICANT C-CLASS X-RAY FLARES ALSO OCCURRED IN REGIONS 2045
(N, 8E09) AND 2049 (N31E31). RAPID DEVELOPMENT WAS REPORTED FOR
REGION 2049. NO NEW REGIONS WERE NUMBERED TODAY BUT SIGNIFICANT
CALCIUM FLARE AREAS ARE SPREAD ACROSS THE EAST CENTRAL PORTION OF
THE VISIBLE DISK.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE THROUGHOUT THE
FORECAST PERIOD. REGIONS 2032, 2049, 2058 AND 2045 ALL CONTRIBUTE
TO THE HIGH PROBABILITY OF M-CLASS ACTIVITY. ISOLATED X-CLASS
ENERGETIC FLARES ARE POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS BEEN MOSTLY QUIET FOR THE PAST 24
HOURS. EXPECTED ACTIVE MAGNETIC LEVELS DID NOT MATERIALIZE
ALTHOUGH A COMPRESSION OF THE DAYSIDE MAGNETOSPHERE WAS OBSERVED
YESTERDAY. UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT THREE
DAYS OWING TO A NORTHERN CORONAL HOLE.

III. EVENT PROBABILITIES 15 OCTOBER - 17 OCTOBER

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 OCTOBER 239

PREDICTED 15-17 OCTOBER 241/243/245

90-DAY MEAN 14 OCTOBER 186

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 OCTOBER 09

ESTIMATED AFR/AP 14 OCTOBER 07/08

PREDICTED AFR/AP 15-17 OCTOBER 10/10 - 12/10 - 12/15

SOLTERWARN

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