

HFUS 1 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 286

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 13 OCT 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST 24 HOURS. REGIONS 1332 (S24W76) AND 1346 (S19W01) HAVE PRODUCED BOTH CLASS "C" AND CLASS "M" XRAY EVENTS WITH REGION 1346 PRODUCING AN M8/1B AT 131233Z. THIS EVENT HAD SHORTWAVE FADES TO 22 MHZ, A 10 CM BURST OF 380 FLUX UNITS AND A TYPE IV SWEEP FREQUENCY BURST. ALTHOUGH THE 10 CM BURST WAS NOT VERY GREAT, SAGAMORE HILL NOTED A 270,000 FLUX UNIT BURST AT 245 MHZ. SINCE 1233Z, REGION 1332 HAS BEEN QUIET AND 1346 HAS PRODUCED ONLY SMALL CLASS "C" EVENTS. TWO ADDITIONAL REGIONS ARE VISIBLE ON THE NORTHEAST LIMB AND ARE NUMBERED 1350 (N17E79) AND 1351 (N26E82). REGION 1345 MAY HAVE MERGED WITH REGION 1346 TO FORM THE AREA THAT IS NOW 1346. THE OTHER DISK FEATURES ARE LITTLE CHANGED.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A MODERATE LEVEL FOR THE NEXT 24-36 HOURS.

II. THE GEOMAGNETIC FIELD IS QUIET TO UNSETLED. GENERALLY UNSETLED TO ACTIVE CONDITIONS ARE EXPECTED ON 14 OCT WITH MINOR STORM CONDITIONS ON 15 OCT AS A RESULT OF THE M8 EVENT AT 131233Z.

III. EVENT PROBABILITIES 14-16 OCT

CLASS M 75/75/75

CLASS X 25/25/25

PROTON 10/15/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 OCT 179

PREDICTED 14-16 OCT 187/190/192

90-DAY MEAN 13 OCT 137

V. GEOMAGNETIC A. INDICES

OBSERVED FREDERICKSBURG 12 OCT 69

ESTIMATED AFR/AP 13 OCT 08/08

PREDICTED AFR/AP 14-16 OCT 14/12 - 34/25 - 25/20

SOLTERWARN

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SDF NUMBER 286

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 13 OCTOBER 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE LAST 24 HOURS.
REGION 2045 (N28E20) APPARENTLY PRODUCED AN M1/0B FLARE ON
13/1339Z (MAX). THIS WAS ASSOCIATED WITH SUDDEN IONOSPHERIC
DISTURBANCES BUT NO REPORTED RADIO BURSTS. REGION 2042/2045
COMPLEX IS INTERACTIVE AND MAGNETICALLY COMPLICATED WITH SEVERAL
ISOLATE POLES, FREQUENT POINT BRIGHTENING AND NUMEROUS KINKS
IN THE NEUTRAL LINE. REGION 2032 (N14W52) WITH ITS EAST-WEST
ORIENTED NEUTRAL LINE AND MODERATELY COMPLEX MAGNETIC FIELDS HAS
HAD FREQUENT PLAGE FLUCTUATIONS AND POINT BRIGHTENINGS WITH
AN ARCH FILAMENT SYSTEM OBSERVED. THIS REGION HAS NOT, HOWEVER,
PRODUCED MUCH FLARE ACTIVITY TO DATE. REGION 2036 (S14W74)
HAS BEEN ERUPTIVE DURING THIS PERIOD.

IB. SOLAR ACTIVITY SHOULD CONTINUE AT MODERATE LEVELS DURING
THE FORECAST PERIOD WITH REGIONS 2045 AND 2032 AS THE MAJOR
CONTRIBUTORS TO THE ACTIVITY. REGION 2036 SHOULD CONTINUE TO
HAVE MINOR FLARE ACTIVITY AS IT ROTATES AROUND TO THE WEST
LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN AT QUIET LEVELS THROUGH THE
LAST 24 HOURS. IT IS EXPECTED TO BECOME UNSETTLED TO ACTIVE
DURING THE NEXT PERIOD.

III. EVENT PROBABILITIES 14 OCTOBER - 16 OCTOBER

CLASS M 70/70/70

CLASS X 10/10/10

PREDICTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 OCTOBER 220

PREDICTED 14-16 OCTOBER 223/225/225

90-DAY MEAN 13 OCTOBER 185

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 12 OCTOBER 05

ESTIMATED AFR/AP 13 OCTOBER 09/12

PREDICTED AFR/AP 14-16 OCTOBER 10/12 - 10/10 - 10/10

SOLTERWARN

BT