

HFUS 1 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 281

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 08 OCTOBER 1978

IA. SOLAR ACTIVITY HAS BEEN GENERALLY LOW WITH LESS THAN A DOZEN
SMALL C-CLASS SUBFLARES REPORTED DURING THE PAST 24 HOURS.
ALTHOUGH OPTICAL COVERAGE HAS BEEN POOR, MOST OF THE X-RAY BURSTS
APPEAR TO HAVE COME FROM REGION 1320 (S13W46). THE MAGNETIC DELTA
CONFIGURATION IN THIS REGION HAS STRENGTHENED AND THE MAGNETIC
GRADIENT IS NOW VERY STRONG (.33 GAUSS/KM). OTHER REGIONS,
INCLUDING THE COMPLEX OF REGIONS IN THE SOUTH EAST QUADRANT OF
THE DISK, HAVE BEEN QUIET AND APPEAR STABLE AT THE MOMENT.

IB. SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW WITH THE
CAUTIONARY NOTE THAT A MAJOR FLARE MAY OCCUR AT ANY TIME NOW. IT
IS IMPOSSIBLE TO SAY EXACTLY WHEN REGION 1320 WILL PRODUCE A
LARGE ENERGETIC FLARE, BUT SUCH A FLARE IS EXPECTED BEFORE WEST
LIMB TRANSIT OF THE REGION.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS.
THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR THE NEXT 72
HOURS.

III. EVENT PROBABILITIES 09 OCTOBER - 11 OCTOBER

CLASS M 60/60/50

CLASS X 30/30/25

PROTON 30/30/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 OCTOBER 150

PREDICTED 09-11 OCTOBER 152/154/158

90-DAY MEAN 08 OCTOBER 136

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 OCTOBER 02

ESTIMATED AFR/AP 08 OCTOBER 05/07

PREDICTED AFR/AP 09-11 OCTOBER 08/10 - 10/12 - 10/12

SOLTERWARN

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SDF NUMBER 281

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 08 OCTOBER 1979

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. REGION 2032 (N16E12)
CONTINUES A SLOW PROCESS OF SIMPLIFICATION ALTHOUGH STILL
SUFFICIENTLY COMPLEX FOR THE PRODUCTION OF CLASS M ACTIVITY.
THE BRIGHT PATCH OF PLAGE OVER THE TRAILING SPOTS, WHICH HAS
CHARACTERIZED THIS REGION, REMAINS CONSPICUOUS BUT DEFINITE
SHRINKAGE IS APPARENT. THE PENUMBRA OF THE TRAILER SPOT IN 2032
IS BECOMING QUITE MOTTLED IN APPEARANCE AND MAY BE COMPLETELY
GONE BY TOMORROW. REGION 2030 (N25E03) CONTINUES TO MIMIC 2032 IN
APPEARANCE BUT THE PLAGE WITH 2030 DOES NOT APPEAR TO BE DECREASING
AS RAPIDLY. REGION 2035 (S20W80) IS NEARING WEST LIMB TRANSIT BUT
HAS BEEN THE MOST PROLIFIC IN FLARE ACTIVITY DURING THE PAST 24
HOURS. AGAIN, TWO MORE REGIONS WERE ADDED TODAY AND WERE NUMBERED
2041 (S11W54) AND 2042 (N22E73).

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE DURING THE
COMING 24 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN AT MINOR TO MAJOR STORM LEVELS.
UNSETTLED TO ACTIVE CONDITIONS SHOULD DOMINATE THE COMING 24 HOURS.

III. EVENT PROBABILITIES 09 OCTOBER - 11 OCTOBER

CLASS M 80/80/80

CLASS X 15/15/15

PROMPTON Ø/Ø/Ø/Ø

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 OCTOBER 201

PREDICTED 09-11 OCTOBER 202/203/206

90-DAY MEAN 08 OCTOBER 181

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 07 OCTOBER 25

ESTIMATED AFR/AP 08 OCTOBER 29/40

PREDICTED AFR/AP 09-11 OCTOBER 15/20 - 10/16 - 08/10

SOLTERWARN

BT