

HFUS 1 BOU 232200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 296

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 23 OCTOBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 1348 (S22) WHICH HAS COMPLETED WEST LIMB TRANSIT WAS THE MOST PROBABLE SOURCE OF A C6 X-RAY BURST AT 0943 U.T. THE ONLY OTHER FLARES OBSERVED WITH ACCOMPANYING X-RAY BURSTS WERE A C2/SF FROM REGION 1365 (N21E62) AND A C2/SF FROM REGION 1355 (N26E08). A LARGE PROMINENCE WHICH WAS LOCATED AT NE20-40 ERUPTED AT APPROXIMATELY 0945 U.T. AND PRODUCED A GRADUAL RISE AND FALL C1 X-RAY BURST. TWO NEW REGIONS HAVE APPEARED AT THE SOUTHEAST LIMB AND HAVE BEEN NUMBERED 1366 (S17E71) AND 1367 (S23E66).

IB. SOLAR ACTIVITY SHOULD REMAIN AT A LOW LEVEL WITH A POSSIBILITY OF SOME MODERATELY ENERGETIC FLARES BEING PRODUCED BY REGION 1355 WHICH, ALTHOUGH DECLINING, IS STILL A BETA-GAMMA MAGNETICALLY. REGION 1320 (S13) IS DUE TO RETURN BEGINNING ON 25 OCTOBER. THIS REGION WAS MODERATELY ACTIVE ON ITS LAST TRANSIT.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. GENERALLY UNSETTLED CONDITIONS SHOULD PREVAIL UNTIL THE EFFECTS OF A CORONAL HOLE, NOW SLIGHTLY PAST CENTRAL MERIDIAN, SHOULD REACH IA.U. ON 26 OCTOBER.

III. EVENT PROBABILITIES 24 OCTOBER - 26 OCTOBER

CLASS M	50/40/40
CLASS X	05/05/05
PROTON	05/05/05
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	23 OCTOBER	164
PREDICTED	24-26 OCTOBER	165/167/170
90-DAY MEAN	23 OCTOBER	141

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	22 OCTOBER	08
ESTIMATED AFR/AP	23 OCTOBER	06/08
PREDICTED AFR/AP	24-26 OCTOBER	10/15 - 15/20 - 20/40

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ISSUED 2200Z 23 OCTOBER 1979

IA. SOLAR ACTIVITY HAS BEEN LOW THE PAST 24 HOURS. X-RAY BURSTS
HAVE BEEN CONFINED TO LOW AND MIDDLE CLASS C LEVELS. WEATHER HAS
AGAIN HAMPERED OPTICAL COVERAGE. OPTICAL CORRELATIONS WITH THE
X-RAY BURSTS ARE ASSOCIATED WITH FLARES IN REGIONS 2058 (N28W40);
2072 (N11E37); AND 2073 (S13E40). REGION 2058 CONTINUES A DECAY
IN ITS PENUMBRA STRUCTURE. AS A RESULT, THE DELTA CONFIGURATION
HAS DISSIPATED AND REGION 2058 IS NOW A BETA GAMMA GROUP. THE
DISK IS NOW CHARACTERIZED BY REGIONS THAT ARE SIMPLE IN STRUCTURE
OR ARE SIMPLIFYING.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH DECREASING
FREQUENCY OF ENERGETIC FLARES AS REGION 2058 CONTINUES TO DECAY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE LAST 24
HOURS. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED, BUT
WITH SHORT PERIODS AT ACTIVE LEVEL, DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 OCTOBER - 26 OCTOBER

CLASS M 70/50/50

CLASS X 10/05/05

PROTON 10/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 OCTOBER 226

PREDICTED 24-26 OCTOBER 222/219/215

30-DAY MEAN 23 OCTOBER 194

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 OCTOBER 15

ESTIMATED AFR/AP 23 OCTOBER 08/10

PREDICTED AFR/AP 24-26 OCTOBER 15/15 - 12/15 - 10/12

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