

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

SOLTERWARN

BT

HFUS 1 BOU 2322 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 296

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
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 PENUMBRAL 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

90-DAY MEAN 23 OCTOBER 194

V. GEOMAGNETIC 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

SOLTERWARN

BT