

HFUS 1 BOU 3 122 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 09 1

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 31 MARCH 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE LARGEST EVENT WAS A C6/SB FROM REGION 2359 (N10W29) AT 0051 UT, MINOR RADIO THROUGH THE SPECTRUM WAS ALSO REPORTED. REGION 2366 (S08E08) PRODUCED A C6/SB, NO RADIO, AT 0603 UT. A IB/C3 FROM REGION 2363 (N27E08) OCCURRED AT 1035 UT. A IB/C2 WAS ALSO REPORTED FROM 2360 (N15W42) AT 1043 UT. REGION 2363 HAS SIMPLIFIED MAGNETICALLY LEAVING ONLY ONE DELTA IN THE NORTH-WEST LEADER SPOT GROUP. DECAY HAS ALSO BEEN REPORTED IN SIZE AND SPOT NUMBER. THE 2357/2360 COMPLEX CONTINUES TO EXHIBIT STRONG MAGNETIC GRADIENTS IN LEADER PORTIONS OF THE REGIONS. REGION 2356 (S30W32) IS NOW A BETA DELTA, APPARENT WEAK DELTA IN TRAILER PORTION.

IB. SOLAR ACTIVITY SHOULD BE AT OR NEAR MODERATE LEVELS DURING THE FORECAST PERIOD. REGION 2363 IS UNDERGOING CHANGE AND CONTINUES TO HAVE THE BEST CHANCE FOR A M-CLASS EVENT AND EVEN A SMALL CHANCE FOR AN X-CLASS EVENT. COMPLEX 2360/2357 ALSO HAS AN ISOLATED CHANCE FOR M-CLASS ACTIVITY. REGION 2356 HAS A STRONG MAGNETIC GRADIENT. HOWEVER IT APPEARS AS ONLY A MINOR THREAT FOR LARGE C-CLASS EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01 - 03 APRIL

CLASS M 60/55/50

CLASS X 05/05/05

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 MAR 190

PREDICTED 01 - 03 APR 184/179/173

90-DAY MEAN 31 MAR 193

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 30 MAR 11

ESTIMATED AFR/AP 31 MAR 14/18

PREDICTED AFR/AP 01 - 03 APR 10/10 14/16 12/10

SOLTERWARN

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