

HFUS 1 BOU 3 12200

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 1980

PREDICTED 01 - 03 APR 184/179/173

90-DAY MEAN 31 MAR 193

V. GEOMAGNETIC A 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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