

HFUS 1 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 090

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 30 MARCH 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS.
SEVERAL SMALL C-CLASS X-RAY EVENTS HAVE BEEN REPORTED DURING
THE PAST 24 HOURS. AT 0007 UT REGION 2351 (S26W98) PRODUCED A
SF FLARE. REGION 2363 (N25E22) PRODUCED SEVERAL C2/SN/SF FLARES
WITH MAXIMUMS AT 0200 UT, 0303 UT, 0339 UT, 0544 UT, 0650 UT,
1655 UT AND 1846 UT. REGION 2360 (N15W29) PRODUCED A SF, NO
X-RAY, AT 0209 UT. RADIO BURSTS THROUGH THE SPECTRUM, 6100 FLUX
UNITS WERE REPORTED AT 24 MHZ. A TYPE IV SWEEP WAS RECORDED
WITH A C3/SN EVENT FROM REGION 2359 (N12W14) AT 1620 UT. SIZE
GROWTH HAS STABILIZED IN REGION 2363 HOWEVER MAGNETIC CHANGE
CONTINUES, THE REGION NOW CONTAINS TWO DELTAS AND THE MAGNETIC
GRADIENT HAS SHOWN A MINOR TIGHTENING IN THE TRAILER PORTION.
REGION 2359/2361 HAS BEEN COMBINED INTO ONE REGION WITH THE
NUMBER BEING 2359. REGIONS 2357/2360 HAVE BECOME MORE COMPLEX
DURING THIS PERIOD. NEW REGION 2369 (S24E09) SIMPLE B TYPE.

IB. SOLAR ACTIVITY SHOULD BE MODERATE DURING THE NEXT 24
HOURS. REGION 2363, ALTHOUGH STABILIZED, CONTINUES TO CHANGE
MAGNETICALLY AND CONTINUES TO HAVE AN EXCELLENT CHANCE TO PRODUCE
M-CLASS FLARES WITH AN ISOLATED CHANCE FOR AN X-CLASS EVENT.
REGIONS 2357/2360 ALONG WITH 2359 COULD ALSO PRODUCE SMALL M-
CLASS EVENTS DURING THE FORECAST PERIOD.

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

III. EVENT PROBABILITIES 31 MAR - 02 APR

CLASS M 70/75/75

CLASS X 15/15/15

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 MAR 199

PREDICTED 31 MAR-02 APR 200/198/196

90-DAY MEAN 30 MAR 193

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 MAR 09

ESTIMATED AFR/AP 30 MAR 09/12

PREDICTED AFR/AP 31 MAR-02 APR 08/08 07/07 12/12

SOLTERWARN

BT