

HFUS 1 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 093

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 APRIL 1980

Ia. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. AN M2 XRAY BURST AT 1955 U.T. (MAX) OCCURRED SIMULTANEOUSLY WITH A SUBNORMAL FLARE IN REGION 2360 (N 13W 68) AND AN IMPORTANCE 2B IN REGION 2363 (N 26W 13). REGION 2363 RETAINS ITS DELTA CONFIGURATION AND THE PLAGE WAS FLUCTUATING IN BRIGHTNESS PRIOR TO THE FLARE. THE NEUTRAL LINE AS DESCRIBED BY RAMEY HAS SOMEWHAT OF A U-SHAPED CONFIGURATION OPEN TO THE EAST. THE "M" EVENT WAS PRECEDED BY SEVERAL "C" CLASS FLARES FROM 2363. A REGION NEAR N23E 78 WAS NUMBERED 2370 TODAY AND IS PROBABLY THE RETURN OF REGION 2323. REGION 2370 IS AND "E" TYPE GROUP AND SMALL FLARES FROM THIS AREA SUGGEST THE REGION IS AT LEAST SLIGHTLY ACTIVE. A NEW A TYPE SPOT WAS NUMBERED 2371 AND IT IS LOCATED AT N 14E 70. NO OTHER MAJOR CHANGES HAVE BEEN REPORTED BUT MOST OBSERVATORIES HAVE HAD WEATHER PROBLEMS.

Ib. SOLAR ACTIVITY SHOULD REMAIN LOW TO MODERATE WITH 2363 CONTINUING AS THE PRIME THREAT. A BETTER LOOK AT 2370 TOMORROW MAY INDICATE AN INCREASE IN PROBABILITIES IS WARRANTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETLED. NO MAJOR CHANGES EXPECTED.

III. EVENT PROBABILITIES 03 APRIL - 05 APRIL

CLASS M 30/30/30

CLASS X 91/01/01

PROTON 91/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 APR 184

PREDICTED 03 - 05 APR 179/175/171

90-DAY MEAN 02 APR 192

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 01 APR 03

ESTIMATED AFR/AP 02 APR 05/07

PREDICTED AFR/AP 03 - 05 APR 08/14 13/22 10/18

SOLTERWARN

BT