

HFSUS-1 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.

SDF NUMBER 09 9

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 08 APRIL 1980

I.A. SOLAR ACTIVITY HAS CONTINUED AT MODERATE LEVELS DURING THE PAST 24 HOURS. THREE M-CLASS EVENTS WERE RECORDED, A M1/SB FROM REGION 2375 (S29E58) AT 0118 UT, A M1 NO OPTICAL AND A M4/1B FROM REGION 2372 (N12W22) AT 0307 UT, ONLY MINOR RADIO REPORTED WITH THESE EVENTS. REGION 2370 (N22W07) IS LESS COMPLEX MAGNETICALLY TODAY, ALTHOUGH THE GRADIENT IN THE NORTHWEST PORTION CONTINUES TO BE SIGNIFICANT. REGION 2372 CONTAINS TWO DELTAS, ONE EACH IN THE LEADER AND TRAILER SECTIONS. ALSO ARCH FILAMENTS HAVE BEEN REPORTED NEAR THE TRAILER SPOTS. REGION 2375 AND 2373 (S19E41) HAVE BOTH SHOWN MODERATE GROWTH DURING THE PAST 24 HOURS. MINOR SURGES ON THE EAST LIMB MAY INDICATE NEW REGIONS ONE OR TWO DAYS AWAY. NEW REGIONS TODAY ARE 2379 (N03E75) AN H-TYPE GROUP AND 2380 (S11E06) A SIMPLE B-TYPE.

I.B. REGION 2372 CONTINUES TO EXHIBIT THE BEST CHANCE FOR A MAJOR FLARE. REGION 2370 ALSO HAS GOOD CHANCE TO PRODUCE A LARGE FLARE. CONTINUED GROWTH IN REGION 2375 WILL INCREASE THE CHANCE OF A M-CLASS FLARE FROM THIS REGION.

III. THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS DURING THE PAST 24 HOURS. THE LOCATION OF THE LARGE ACTIVE REGIONS AND THE CONTINUED M-CLASS ACTIVITY SHOULD CAUSE THE FIELD TO BE NEAR OR AT ACTIVE LEVELS DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES - 09 APRIL - 11 APRIL

CLASS M 9.0/9.0/9.0

CLASS X 3.0/3.0/3.0

PREDICTED 4.0/4.0/4.0

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 APRIL 241

PREDICTED 09-11 APRIL 244/244/240

90-DAY MEAN 08 APRIL 191

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 07 APRIL 17

ESTIMATED AFR/AP 08 APRIL 13/13

PREDICTED AFR/AP 09-11 APRIL 13/13 - 17/17 - 15/15

SOLIERWARN

BT