

HFUS 1 BOU 240540

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 084A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 24 MARCH 1976

IA. SOLAR ACTIVITY HAS BEEN MODERATE SINCE THE MAJOR FLARE (CLASS X-1) AT 0840Z. THE SUPPOSED SOURCE OF THIS FLARE IS NOW VISIBLE OPTICALLY (PALEHUA) AS A THIN STRIP OF PLAGE AT SE05 WITH ACTIVE SURGE AND PROMINENCE STRUCTURE. LOOP PROMINENCES ENDED AROUND 2200Z. THE REGION IS PROBABLY ASSOCIATED WITH OLD REGIONS 684 AND 685 WHICH MERGED BEFORE CROSSING THE WEST LIMB. NO SIGNIFICANT ACTIVITY HAS BEEN OBSERVED SINCE THE 0840Z FLARE THOUGH THE REGION REMAINS A STRONG RADIO SOURCE. REGION 688 (N05W66) HAS SHOWN DECAY OF TRAILERS AND GROWTH OF INTERMEDIATE SPOTS AND PRODUCED A CLASS I-N/M-2 FLARE AT 0017Z AND SEVERAL POINT BRIGHTENINGS.

IB. REGION 688 WILL LIKELY CONTINUE TO GIVE MODERATE ACTIVITY, AND THE EAST LIMB REGION REMAINS A THREAT FOR HIGH ACTIVITY. DETAILED ANALYSIS OF THE EAST LIMB REGION WILL BECOME POSSIBLE LATER ON 24 MARCH AS IT ROTATES INTO BETTER VIEW.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 8 HOURS. CONDITIONS ARE EXPECTED TO BECOME UNSETTLED TO ACTIVE ON 24 MARCH AS A RECURRENT MINOR STORM OF FOUR DAYS DURATION RETURNS. FLARE INDUCED MAGNETIC ACTIVITY IS NOT LIKELY THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 24 MARCH - 26 MARCH

CLASS M 70/70/70

CLASS X 25/25/25

PROTON 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MARCH 88

PREDICTED 24-26 MARCH 98/97/96

90-DAY MEAN 23 MARCH 73

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 MARCH 02

ESTIMATED AFR/AP 23 MARCH 05/05

PREDICTED AFR/AP 24-26 MARCH 15/22 - 25/30 - 25/30

SOLTERWARN

BT

HFUS 1 BOU 241500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 084-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 24 MAR 1976

IA. OBSERVATIONS HAVE BEEN HAMPERED BY WEATHER AT MOST OBSERVATORIES DURING THE PAST EIGHT HOURS BUT RADIO AND X-RAY REPORTS INDICATE THAT SOLAR ACTIVITY HAS BEEN LOW. REGION 688 (N05W70) HAS BEEN STABLE AS IT NEARS THE WEST LIMB. THE REGION COMING OVER THE EAST LIMB IS STILL NOT SUFFICIENTLY ON THE DISK THUS PREVENTING AN ACCURATE ANALYSIS. MANILA REPORTS THAT IT HAS A POSSIBLE H TYPE SPOT GROUP. THE REST OF THE DISK IS QUIET.

IB. SOLAR ACTIVITY WILL BE MODERATE TO LOW. DETAILED ANALYSIS OF THE EAST LIMB REGION LATER TODAY WILL ALLOW FOR A MORE DEFINITE PREDICTION OF THE TREND OF ACTIVITY FOR THE NEXT 24 - 48 HOURS.

II. ~~SOLAR ACTIVITY~~ WILL BECOME UNSETTLED LATER TODAY AND WILL BE ACTIVE ON 25 AND 26 MARCH AS A RECURRENT STORM RETURNS.

III. EVENT PROBABILITIES 24 - 26 MAR

CLASS M 70/70/70

CLASS X 25/25/25

PROTON 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAR 88

PREDICTED 24 - 26 MAR 98/97/96

90-DAY MEAN 23 MAR 73

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 MAR 02

ESTIMATED AFR/AP 23 MAR 05/05

PREDICTED AFR/AP 24 - 26 MAR 08/10 - 17/22 - 22/30

SOLTERWARN

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HFUS 1 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 084

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 24 MAR 1976

IA. SOLAR ACTIVITY HAS BEEN AT A LOW TO MODERATE LEVEL DURING THE PAST 24 HOURS. REGION 688 (N04W80) PRODUCED AN M2 X-RAY BURST AT 240013 U.T. A IN FLARE WITH A 229 FLUX UNIT BURST ON 2695 MHZ ACCOMPANIED THIS X-RAY BURST. SINCE THAT TIME, ONLY SMALL C CLASS X-RAYS HAVE BEEN OBSERVED. REGION 688 APPEARS TO BE DECLINING SLOWLY AS IT APPROACHES WEST LIMB PASSAGE. REGION 690 (S06E81) HAS THUS FAR EXHIBITED AN H TYPE SPOT WITH STRONG INDICATIONS THAT A FOLLOWER SPOT IS CLOSE BEHIND. SMALL SURGES WITH ASSOCIATED SUB C X-RAY BURST HAVE BECOME QUITE FREQUENT IN 690 DURING THE PAST HOUR. WHILE THIS REGION OBVIOUSLY POSSESSES POTENTIAL FOR SIGNIFICANT FLARE PRODUCTION, CURRENT ANALYSIS INDICATE THAT IT IS NOT QUITE AS "HOT" AS ITS PRE-LIMB BEHAVIOR WOULD SUGGEST.

IB. REGIONS 688 AND 690 CONTINUE TO POSE A THREAT FOR SIGNIFICANT ACTIVITY AND THIS THREAT IS NOT LIKELY TO DIMINISH DURING THE NEXT 24 - 48 HOURS.

II. THE GEOMAGNETIC FIELD IS QUIET; HOWEVER, A RECURRENT DISTURBANCE IS EXPECTED TO BRING ACTIVE CONDITIONS LATE TODAY WHICH SHOULD PERSIST BEYOND THE VALID PERIOD OF THIS FORECAST.

III. EVENT PROBABILITIES 25 - 27 MARCH

CLASS M 50/50/50

CLASS X 10/10/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAR 83

PREDICTED 25 - 27 MAR 81/79/79

90-DAY MEAN 24 MAR 73

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 MAR 03

ESTIMATED AFR/AP 24 MAR 05/05

PREDICTED AFR/AP 25 - 27 MAR 17/22 - 22/30 - 22/30

SOLTERWARN

BT