

KBOU

HFUS BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 080 ISSUED 2200Z 20 MAR 1972

FREQUENT SMALL FLARES EXPECTED. CHANCE ISOLATED CLASS M
EVENT

A. FREQUENT SUBFLARES, INFREQUENTLY ACCCOMPANIED BY MINOR X-RAYS, HAVE BEEN PRODUCED BY THE REGION 101-105 COMPLEX /N08W06, N10W08/ AND REGIONS 109 /S18E02/ AND 111 /N09E49/. SOME SPOT GROWTH AND INCREASED H-ALPHA INTENSITY HAS BEEN OBSERVED IN REGION 105 BUT THE COMPLEX REMAINS RELATIVELY SMALL. REGION 109, ALTHOUGH VERY SMALL IN SUNSPOT AREA AND SIMPLE MAGNETICALLY, HAS REMAINED BRIGHT IN H-ALPHA. REGION 111 /NORTHEAST/ IS REPORTED BY MT WILSON TO BE A BETA-GAMMA MAGNETICALLY AND TO CONTAIN A DELTA CONFIGURATION. THE GEOMAGNETIC FIELD IS INTERMITTENTLY UNSETLED.

B. INTERACTION BETWEEN REVERSED POLARITY 105 AND 101 SHOULD RESULT IN ~~CONTINUAL~~ MINOR ACTIVITY. OCCASIONAL SMALL FLARES ARE EXPECTED FROM REGION 111 WITH THE CHANCE OF AN ISOLATED CLASS M EVENT. THE GEOMAGNETIC FIELD WILL BE QUIET WITH UNSETLED PERIODS DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 21 MAR/0000Z ENDING 23 MAR/2400Z. CLASS M OR GREATER 30/30/30

CLASS X 03/03/03

PROTON EVENTS 02/03/03

D. OTTAWA 10.7CM FLUXES FOR 20/1400Z, 20/1700Z AND 20/2000Z WERE 136, 136 AND 136 RESPECTIVELY. PREDICTED 10.7CM FLUX FOR 21-23 MAR IS 132/130/125.

E. MAGNETIC A-FREDERICKSBURG FOR 19 MAR WAS 04. FOR 20 MAR ABOUT 06. PREDICTED AP FOR 21-23 MAR IS 05/12/12.

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*A1though
"Continual" intended
to be "Continued".
However,
correction requires
multiple trans
so decided not
to.*

JBS

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SESC-PRF 072 ISSUED ~~M20~~ MARCH 1972

HIGHLIGHTS FOR 15-21 MARCH 1972--

SOLAR ACTIVITY REMAINED AT A LOW LEVEL THESE PAST SEVEN DAYS. THE LARGEST X-RAY EVENT HAS BEEN ONE CLASS M1 EVENT OCCURRING 21/0120Z WITH A SN/1B FLARE IN REGION 111. THE FOLLOWING REGIONS ARE OF INTEREST AS FLARE/EVENT PRODUCERS- REGION 101 /N08, L025, MCMATH 783/; REGION 105 /N10, L027, MCMATH 783, REVERSED POLARITY/; REGION 109 /S18, L017, MCMATH 784/ AND REGION 111 /N09, L330, MCMATH 787/. ISOLATED SMALL CENTIMETRIC THROUGH DEKAMETRIC BURSTS HAVE OCCURRED WITH OPTICAL SUBFLARES FROM THESE REGIONS. THE GEOMAGNETIC FIELD WAS UNSETTLED 16-18 MARCH AND IS EXPECTED TO BECOME UNSETTLED 22 MARCH.

FORECAST FOR 23-29 MARCH 1972--

THE LOW LEVEL OF SOLAR ACTIVITY IS EXPECTED TO CONTINUE, WITH THE ACTIVITY PREDOMINANTLY COMING FROM THE FOUR REGIONS LISTED ABOVE. OF THESE, REGION 111 HAS THE GREATEST POTENTIAL FOR CLASS M EVENTS. THIS REGION IS MILDLY COMPLEX MAGNETICALLY AND HAS THE HIGHEST 9.1CM TEMPERATURE. REGION 086 IS DUE TO RETURN 28 MARCH BUT IS NOT EXPECTED TO INCREASE THE LEVEL OF ACTIVITY. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED UNTIL 23 MARCH.

28-DAY FORECAST FOR 23 MARCH-19 APRIL 1972--

SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A LOW LEVEL WITH QHRLCLASS M ACTIVITY. NO ACTIVE RETURNING REGION IS EXPECTED. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED 20-31 MARCH, 3-5 APRIL AND 12-14 APRIL.

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