

HXUS BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 153 ISSUED 2200Z 01 JUNE 1972

A. ALTHOUGH NEW ACTIVE REGIONS HAVE PASSED OVER THE EAST LIMB ONTO THE DISK, REGION 210 (N12W25) CONTINUES TO BE OF CONCERN. THE LEADER PLAGE APPEARS TO BE GROWING IN SIZE AND HEATING UP WHILE THE NEUTRAL LINE BECOMES MORE TWISTED. ALSO THE LARGE SPOTS COMPRISING THE DELTA CONFIGURATION IN THE LEADER HAVE MOVED CLOSER TOGETHER AND ROTATED INTO A MORE NORTH-SOUTH ALIGNMENT. INDICATING THE REGION MAY BE WINDING UP TO PRODUCE ANOTHER ENERGETIC FLARE.

RGN 219 (S06E45), WHICH PRODUCED AN M2 FLARE ON 31 MAY, APPEARS TO HAVE A SHARPLY KINKED NEUTRAL LINE AND MAY HAVE ENERGETIC POTENTIAL. REGION 214 (S12E37) HAS A GROUPING OF NEW SPOTS EMERGING AHEAD OF THE LARGE LEADER SPOT AND NEW GROWING PLAGE. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. THE 5-21 MEV PROTON FLUX HAS ESSENTIALLY RETURNED TO BACKGROUND LEVELS.

B. REGION 210 DISPLAYS X-CLASS ENERGETIC FLARE POTENTIAL. REGIONS 210 AND 219 COULD PRODUCE M-CLASS FLARES AT ANY TIME. THE GEOMAGNETIC FIELD SHOULD REMAIN QUIET FOR THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING JUNE/020000Z ENDING JUNE/050000Z.

CLASS M OR GREATER 90/85/80

CLASS X 15/15/10

PROTON EVENTS 20/20/20

D. OTTAWA 10.7 CM FLUXES FOR 01/1400Z, 01/1700Z AND 01/2000Z WERE 125, 125 AND 122 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 02-05 JUNE IS 124/128/130.

E. MAGNETIC A-FREDERICKSBURG FOR 31 MAY WAS 14. FOR 01 JUN ABOUT 08 PREDICTED AP FOR 02-05 JUNE, 6/5/5.

SOLTERWARN

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