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FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 132A ISSUED 0500Z 12 MAY 1971

ENERGETIC FLARE ACTIVITY IS LIKELY DURING THE NEXT 24 HOURS.

A. AN ENERGETIC ONE-BRILLIANT FLARE OCCURRED IN THE REGION AT N13W70 BEGINNING AT ABOUT 12/0140Z. THIS EVENT WAS ACCCOMPANIED BY A 10.7 CM RADIO BURST OF APPROXIMATELY 250 FLUX UNITS ABOVE THE BACKGROUND LEVEL AND BY AN X-RAY EMISSION OF AT LEAST CLASS M5 INTENSITY. TOTAL SHORTWAVE FADES WERE OBSERVED AT 10 AND 15 MHZ. THE 1B FLARE BEGAN SOUTH OF THE LEADING SPOT NEAR THE NEUTRAL LINE OF THE N13W70 REGION, AND THEN ADDITIONAL CHROMOSPHERIC MATERIAL EAST AND WEST OF THE LEADER BECAME ENHANCED AS THE FLARE REACHED ITS MAXIMUM AREA AT ABOUT 0200Z. NO ENERGETIC PARTICLES HAVE BEEN RECEIVED SO FAR FROM THIS FLARE, AND THE RADIO BURST PROFILE IS NOT INDICATIVE OF THE PRODUCTION OF A PROTON EVENT NEAR EARTH. THE N13W70 REGION IS STILL THE DISK'S MOST DYNAMIC ACTIVE CENTER, EXHIBITING PLAGE BRIGHTENINGS AND HAVING THE TYPICAL APPEARANCE OF A LARGE DECLINING ACTIVE REGION. ACCORDING TO THE MOUNT WILSON OBSERVATORY, THIS N13W70 GROUP CONTAINS SOME SPOTS OF MIXED POLARITY IN THE WESTERN PART OF THE TRAILER, BUT THE DELTA CONFIGURATION OBSERVED MAY 9 IS NO LONGER VISIBLE. THE NEW REGION AT N04E70 CONTAINS DIM PLAGE AND AT LEAST A D-TYPE SPOT GROUP, BUT NO ENERGETIC ACTIVITY HAS BEEN OBSERVED AT THIS SITE SO FAR. OTHER REGIONS ARE UNIMPRESSIVE. THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE PAST SEVEN HOURS.

B. DURING THE THREE-DAY FORECAST PERIOD, AT LEAST ONE OR TWO LARGE CLASS M OR CLASS X FLARES ARE LIKELY TO OCCUR IN THE ACTIVE REGION NOW LOCATED AT N13W70. THE GEOMAGNETIC FIELD IS NOT EXPECTED TO BECOME SIGNIFICANTLY DISTURBED DURING THE FORECAST PERIOD, BUT UNSETTLED CONDITIONS MAY OCCUR DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 12 MAY/0000Z ENDING 14 MAY/2400Z  
CLASS M OR GREATER 90/95/95

CLASS X 25/35/35

PROTON EVENTS 25/30/25

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HAUS BOU 122200

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 132B ISSUED 2200Z 12 MAY 1971

A CLASS M FLARE EXPECTED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS BEEN CONFINED TO SUBFLARES SINCE THE 1B, CLASS M7 FLARE AT 12/0140Z. THIS FLARE WAS A VERY MINOR LOW ENERGY PROTON EVENT. THE N12W81 REGION HAS HAD A TRAILER POLARITY SPOT EMERGE JUST SOUTH OF THE LARGE LEADER PRODUCING STRONG MAGNETIC GRADIENTS AND BRIGHT FLUCTUATING POINTS OF PLAGUE.

A WEAK DELTA IS INFERRED IN THE LARGE TRAILER. THE NO6 E59 REGION APPEARS TO BE TWO OVERLAPPING BIPOLARS FORMING A DELTA CONFIGURATION IN THE LARGE INTERMEDIATE SPOT. A NEW REGION IS EMERGING AT N2IW01 AND HAS ALREADY PRODUCED ONE SMALL FLARE.

B. SOLAR EVENT PROBABILITIES WILL REMAIN UP UNTIL THE N12W81 REGION PASSES ABOUT TWO DAYS BEHIND THE WEST LIMB. MINOR GEOMAGNETIC ACTIVITY IS EXPECTED AROUND 14 MAY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 13 MAY/0000Z ENDING 15 MAY/2400Z.

CLASS M OR GREATER 95/85/70

CLASS X 35/25/15

PROTON EVENTS 50/45/30

D. OTTAWA 10.7 CM FLUXES FOR 12/1400Z - 12/1700Z AND 12/2000Z WERE 129, 127 AND 130 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 13-15 MAY IS 122/117/114.

E. MAGNETIC A-FREDERICKSBURG FOR 11 MAY WAS 05. FOR 12 MAY ABOUT 02 PREDICTED AP FOR 13-15 MAY, 03/12/09.

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