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HAUS BOU 180410Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 541A ISSUED 0400Z 18 FEBRUARY 1970

ISOLATED M FLARE ACTIVITY IS EXPECTED DURING THE NEXT 24 HOURS.

A/ NO MAJOR ACTIVITY HAS BEEN REPORTED SINCE THE LAST MESSAGE.

CURRENT SOURCE OF SUBFLARES IS THE MIDDLE GROUP OF A TRIO JUST INSIDE THE SE LIMB. ADDITIONAL HYDROGEN PLAGE HAS ROTATED INTO VIEW NEAR SE06 - NO SPOTS ARE AS YET VISIBLE. OF THE TEN REGIONS ON THE DISK 8 ARE IN THE SOUTHERN HEMISPHERE BEING EQUALLY DIVIDED BETWEEN THE SOUTHEASTERN AND SOUTHWESTERN QUADRANTS. THE REMAINING 2 DOT THE NW SECTOR. THESE LATTER 2 ALTHOUGH SMALL CONTAIN BRIGHT NEARLY CIRCULAR H-ALPHA PLAGES.

B. ANY ONE OF THREE REGIONS COULD PRODUCE AN M EVENT. THEY ARE THE S14E56, S20E14, AND S12W09 CLUSTERS. ONE M FLARE PER DAY IS VERY LIKELY DURING THE NEXT 3-DAY PERIOD, HOWEVER, IT IS IMPOSSIBLE TO SPECIFY WITH CONFIDENCE FROM WHICH SPOT GROUP IT WILL STEM.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 FEB/0400Z ENDING 21 FEB/0400Z

CLASS M OR GREATER 70/70/70

CLASS X 10/05/02

PROTON EVENTS 05/02/02

D. OTTAWA 10.7 CM FLUXES FOR 17/1700Z AND 2000Z WERE 204 AND 202 RESPECTIVELY.

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SDF NUMBER 541B ISSUED 1700Z 18 FEBRUARY 1970

CLASS M FLARES ARE EXPECTED IN THE NEXT 11 HOURS

A. HIGHLIGHTS FOR THE PERIOD 11-18 FEBRUARY 1970--

DURING THE SIX DAYS MCMATH REGION 568 WAS VISIBLE IN THE ABOVE PERIOD\ THREE X AND TWENTY-FIVE M FLARES WERE OBSERVED WITHIN ITS BOUNDARIES. WITH ONE EXCEPTION /A CLASS X\ 2B\ BEGINNING 11/0703Z/ EACH ERUPTION WAS HEAVILY WEIGHTED TOWARD THE SOFT AND HARD X-RAY PORTIONS OF THE SPECTRUM WHILE DISPLAYING ALMOST NEGLIGIBLE RESPONSES AT RADIO WAVELENGTHS. OPTICALLY 568 REACHED ITS MAXIMUM DEVELOPMENT ON 11 FEBRUARY WITH A CLASS/AREA OF E/1070. IT BEGAN DECAYING THEREAFTER AT A RATE COMPARABLE TO ITS NEAR EXPLOSIVE GROWTH AND COMPLETED WEST LIMB PASSAGE BY 16 FEBRUARY. NO GEOPHYSICAL EFFECTS WERE RECORDED EVEN THOUGH THE CENTER WAS FAVORABLY POSITIONED ON THE DISK. A NARROW SECTOR OF CARRINGTON LONGITUDES ACTIVE THE LAST WEEK IN JANUARY /L APPROXIMATELY 300/ BEGAN TO REAPPEAR ON THE SE LIMB THREE DAYS AGO. THE HYDROGEN PLAGE THERE IS SCATTERED BUT APPEARS BRIGHT ALONG ITS EASTERN EXTREMITY. MT. WILSON MAGNETIC POLARITY MAPS INDICATE TWO BIPOLAR GROUPS ARE PRESENT. MOREOVER\ BASED UPON THE LAST COMPLETE VIEW OF THIS REGION ON 31 JANUARY\ IT APPEARS THAT THE S19E54 PORTION IS THE MOST RECENT ADDITION.

B. FORECAST FOR THE PERIOD 19-25 FEBRUARY 1970--

IT IS NOT ANTICIPATED THAT THE FORMERLY ACTIVE REGIONS NOW CENTERED NEAR S14E50 /MCMATH REGION 584/ WILL REGENERATE SIGNIFICANTLY DURING THIS DISK PASSAGE. THE INACTIVITY OF ADJACENT LONGITUDES AND PARTICLE DIFFUSION MAY WELL PERMIT SATELLITE DETECTION OF ENHANCED PROTON FLUXES ONCE AGAIN FROM 584 AS IT ASSUMES A POSITION WESTWARD OF CENTRAL MERIDIAN. CLASS M FLARE ACTIVITY THAT DOES OCCUR DURING THE COMING WEEK IS EXPECTED TO BE OF A SPORADIC NATURE.

28-DAY FORECAST FOR THE PERIOD 19 FEBRUARY-19 MARCH 1970--
THROUGHOUT THE REMAINDER OF FEBRUARY\ SOLAR ACTIVITY IS EXPECTED TO DECLINE. MARCH SHOULD ALSO BE CHARACTERIZED BY A LOWER THAN AVERAGE FLARE INDEX.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18/1700Z ENDING 21/1700Z.

CLASS M OR GREATER 80/80/70

CLASS X 10/05/05

PROTON EVENTS 10/05/05

D. OTTAWA 10.7 CM FLUX 1400Z WAS 202. PREDICTED 200/195/195.

E. MAGNETIC A-FREDERICKSBURG FOR 17 FEB WAS 08. FOR 18 FEB ABOUT 08. PREDICTED AP FOR 19-21 FEB 05/08/08.

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