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KMSC

HAUS BOU 250400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF 576A ISSUED 0400Z 25 MARCH 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 13-HOUR PERIOD.

A. NO M ACTIVITY HAS BEEN OBSERVED SINCE THE LAST MESSAGE. THE BIPOLAR GROUP OF CLASS/AREA H/130 NEAR N17W85 IS CURRENTLY THE BRIGHTEST ON THE DISK IN HYDROGEN-ALPHA. SMALL BSLS ARE BEING OBSERVED THERE. ALONG THE EAST LIMB FROM ABOUT N02 TO N06 PLAGE IS ROTATING INTO VIEW WITH BSLS AND BRIGHT MOUNDS IN EVIDENCE AS WELL. OBSERVATIONS BEHIND THE EL VIA THE PIONEER 6 AND 7 SPACE-CRAFTS INDICATE THAT THIS RETURNING REGION HAS BEEN RECENTLY ACTIVE.

B. A MAGNETIC DISTURBANCE IS EXPECTED TO BEGIN GRADUALLY ABOUT 25/1800Z. ENERGETIC FLARES ARE ANTICIPATED FROM THE N17W85 AND N14E13 REGIONS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 25 MAR/0400Z ENDING 28 MAR/0400Z

CLASS M OR GREATER 80/70/70

CLASS X 20/05/05

PROTON EVENTS 10/02/02

D. OTTAWA 10.7 CM FLUXES FOR 24/1700Z AND 2000Z WERE 172 AND 171 RESPECTIVELY.

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FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 577B ISSUED 1700Z 25 MARCH 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS

A. HIGHLIGHTS FOR THE PERIOD 18-25 MARCH 1970--

ELEVEN M FLARES DISTRIBUTED AMONG FIVE REGIONS WERE OBSERVED DURING THE PAST EIGHT DAYS. THREE OF THESE THRESHOLD M EVENTS TOOK PLACE NEAR THE NE LIMB AND WITHIN THE THREE-DAY PERIOD IN WHICH FOUR SMALL SPOT GROUPS ROTATED INTO VIEW. AMONG THE RETURNING CARRINGTON LONGITUDES WAS L234 /MCMATH REGION 595/ THE PROBABLE SOURCE OF MARCH 08'S GREAT MAGNETIC STORM. ONLY ONE OF THESE, NAMELY 595, HAS DEVELOPED INTO A MODERATE SIZED GROUP. THIS N14E06 BIPOLAR REGION IS OF CURRENT CLASS/AREA D/220. A SHORT-LIVED /APPROXIMATELY 17 HOURS/ SOLAR COSMIC RAY ENHANCEMENT BEGAN ABOUT 23/1825Z. THE WEAK EVENT WAS DETECTED ON THE GROUND AS WELL AS BY SATELLITE. MAXIMUM RIOMETER ABSORPTIONS AT FT. YUKON, BAR 1, AND THULE WERE OF THE ORDER OF A FEW TENTHS OF A DB. THE GEOMAGNETIC FIELD HAS BEEN VERY QUIET.

B. FORECAST FOR THE WEEK 26 MARCH-01 APRIL 1970--

Should be 90 CONTINUED MODERATE CLASS M ACTIVITY IS FORESEEN FROM EITHER OR BOTH OF THE N14E06 AND ~~N05E10~~ CENTERS THESE NEXT SEVEN DAYS.

GEOMAGNETIC FLUCTUATIONS ARE EXPECTED TO BEGIN LATE TODAY WITH THE DISTURBANCE DEVELOPING GRADUALLY INTO A MINOR STORM BY 28 MARCH. AN A SUB P OF THE ORDER OF 30 IS ANTICIPATED FOR THAT DAY. 28-DAY FORECAST FOR THE PERIOD 26 MARCH-23 APRIL 1970-- THE NEXT PERIOD OF ENHANCED ACTIVITY SOULD OCCUR WITHIN THE 2ND WEEK OF APRIL.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 25/1700Z ENDING 28/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 30/30/30

PROTON EVENTS 15/10/10

D. OTTAWA 10.7CM FLUX AT 1400Z WAS 175. PREDICTED 180/185/188.

E. MAGNETIC A-FREDERICKSBURG FOR 24 MAR WAS 02. FOR 25 MAR ABOUT 03. PREDICTED AP FOR 26-28 MAR 15/20/30.

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