

NNNN0400

NNNN

KMSC

HAUS BOU 250400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 548A ISSUED 0400Z 25 FEB 1970

M FLARES ARE LIKELY DURING THE NEXT 13-HOUR PERIOD.

A. THE OVERALL LEVEL OF SOLAR ACTIVITY IS GRADUALLY DIMINISHING. THERE ARE, HOWEVER, MANY SPOT GROUPS COVERING THE DISK. MOST ACTIVE OF THE LOT DURING THE PAST 24 HOURS HAS BEEN THE SMALL BETA-GAMMA GROUP NEAR N18E25. RECORDS SHOW THAT THE LAST M EVENT OBSERVED - AN 0854Z FLARE YESTERDAY - OCCURRED THERE.

B. AS A RESULT OF THE UNUSUALLY QUIET GEOMAGNETIC CONDITIONS PREVAILING FROM 19 THROUGH 23 FEB, THE MAGNETOMETER FLUCTUATIONS EVIDENT YESTERDAY HAVE BEEN SOMEWHAT MORE CLOSELY FOLLOWED. NO STORM THOUGH IS EXPECTED. M EVENTS AT THE RATE OF ABOUT ONE/DAY SHOULD ACCURATELY CHARACTERIZE THE NEXT 3 DAYS. THE N18E25 GROUP IS A PRIME CANDIDATE FOR SUCH ERUPTIONS.

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

CLASS M OR GREATER 80/80/60

CLASS X 10/15/10

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUXES FOR 24/1700Z AND 2000Z WERE 191 AND 190 RESPECTIVELY SHM

SOLTERWARN

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HAUS BOU 251700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 548B ISSUED 1700Z 25 FEB 1970

CLASS M FLARES ARE PROBABLE DURING THE NEXT 11 HOURS

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

ALTHOUGH NOT THE LARGEST GROUP VISIBLE THESE PAST EIGHT DAYS, MCMATH REGION 584 WAS THE MOST ACTIVE SINGLE REGION, WITH A TOTAL OF FOUR M EVENTS AND AN X FOR THE PERIOD; THE LATTER FLARE OCCURRED AT 20/0944Z /OPTICALLY A 1B/. THOSE REMAINING ENERGETIC FLARES RECORDED DURING THIS PERIOD ORIGINATED WITHIN FIVE WIDELY SEPARATED REGIONS. NO ONE OF THE EVENTS MENTIONED PRODUCED MEASUREABLE GEOPHYSICAL EFFECTS. /IT IS BELIEVED, HOWEVER, THAT THE SMALL SC RECORDED 23/2013Z MARKED THE LEADING EDGE OF A DISTURBED SOLAR WIND SECTOR - ONE NOT QUITE COPLANAR WITH THE ECLIPTIC - IN ASSOCIATION WITH 584./ AN AVERAGE OF TWELVE REGIONS WERE VISIBLE EACH DAY, AND PERHAPS THE NUMBER ALONE AT LEAST PARTIALLY ACCOUNTED FOR THE GREATER THAN TWO HUNDRED 10.7 CM FLUX VALUES RECORDED ON 18 AND 19 FEBRUARY. SINCE EARLY ON THE 21ST ONE GROUP IN THE NE QUADRANT HAS APPEARED TO DEVELOP. ITS GROWTH IS IN SHARP CONTRAST TO THE DEVELOPMENT EXHIBITED BY THE MAJORITY OF REGIONS THIS PAST WEEK. DESIGNATED AS MCMATH REGION 595, THE GROUP'S CLASS/AREA IS CURRENTLY E/340; MAGNETICALLY IT IS CLASSIFIED AS A BETA-GAMMA WITH TWO DELTAS; AND THE REGION HAS BEEN THE SOURCE OF FOUR M FLARES TO DATE. A FAST DEVELOPING REGION AT S07W17 /L270/ IS MAGNETICALLY A BETA-GAMMA WITH A DELTA CONFIGURATION AND CONTAINS ARCH FILAMENT SYSTEMS.

B. FORECAST FOR THE PERIOD 26 FEBRUARY-04 MARCH 1970--

THE S07W17 /L270/ REGION IS EXPECTED TO DOMINATE THE DISK BEFORE WEST LIMB PASSAGE ON 3 MARCH WITH A LOW LEVEL OF ACTIVITY THEREAFTER.

28-DAY FORECAST FOR THE PERIOD 26 FEBRUARY-26 MARCH 1970--

THE TOTAL NUMBER OF ENERGETIC CLASS M AND X FLARES IS EXPECTED TO DECLINE DURING THIS PERIOD.

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

CLASS M OR GREATER 60/70/70

CLASS X 05/05/10

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 181. PREDICTED 180/176/172.

E. MAGNETIC A-FREDERICKSBURG FOR 24 FEB WAS 10. FOR 25 FEB ABOUT 05. PREDICTED AP FOR 26-28 FEB 05/03/03.

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