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KMSC

HAUS BOU 060400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 618A ISSUED 0400Z 06 MAY 1970

THE PROBABILITY OF ENERGETIC FLARES OCCURRING DURING THE NEXT 13 HOURS IS ABOUT 50 PERCENT.

A. CHANGES IN VISIBLE DISK FEATURES HAVE BEEN SMALL SINCE THE LAST MESSAGE. ACTIVITY AT THE CLASS C LEVEL IS PRESENTLY ABOUT ONE/HOUR, AND THESE FLARES PRIMARILY ARISE WITHIN THE GROUP NOW CENTERED NEAR N17E45. QUIET CONDITIONS ALSO PREVAIL GEOMAGNETICALLY.

B. THERE EXISTS SOME EVIDENCE THAT THE D/290 SPOT GROUP 2 DAYS INSIDE THE EL FLARED ENERGETICALLY SHORTLY BEFORE ROTATING INTO VIEW. MOREOVER WHITE LIGHT OBSERVATIONS IMPLY THAT THE REGION IS A DEVELOPING ONE, I.E., NOT IN A DECLINING STAGE. ALTHOUGH FLARES ARE CONSIDERED UNLIKELY THERE DURING THE FORECAST PERIOD, M EVENTS OF THE ORDER OF 2/DAY ARE FORESEEN.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06 MAY/0400Z ENDING 09 MAY/0400Z

CLASS M OR GREATER 55/55/45

CLASS X 05/05/05

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUXES FOR 05/1700Z AND 2000Z WERE 165 AND 168 RESPECTIVELY.

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HAUS BOU 061700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 618B ISSUED 1700Z 06 MAY 1970

CLASS-M FLARES ARE PROBABLE DURING THE NEXT 13 HOURS

A. HIGHLIGHTS FOR THE PERIOD 29 APRIL -06 MAY 1970--

ONLY THREE M FLARES FROM WITHIN AS MANY REGIONS WERE RECORDED DURING THE PAST EIGHT DAYS. ALTHOUGH THE DISK WAS NOT LACKING IN A SUFFICIENT NUMBER OF FEATURES, EITHER MANY OF THESE GROUPS WERE SIMPLY TOO SMALL TO PRODUCE ENERGETIC FLARES OR THEIR STRUCTURE WAS OF THE SIMPLE, ESSENTIALLY UNIPOLAR TYPE. THE WEEK'S MOST PROMISING REGION /MCMATH 725/ APPEARED ON THE EAST LIMB ABOUT MIDDAY 03 MAY. NO M FLARES HAVE AS YET OCCURRED THERE, BUT THE MAGNETIC STRUCTURE IS BETA-GAMMA WITH DELTA; ITS CLASS/AREA IS CURRENTLY D/290; AND THE ASSOCIATED 9.1 CM EMISSION SOURCE IS MODERATELY BRIGHT. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. FORECAST FOR THE WEEK 07-13 MAY 1970--

DESPITE THE FAVORABLE ACTIVITY INDICES NOTED WITH RESPECT TO MCMATH REGION 725, MAJOR ERUPTIONS, I.E., OF THE CLASS X TYPE, ARE NOT EXPECTED. A NEW SPOT GROUP FAILED TO MATERIALIZE IN THE VICINITY OF CARRINGTON LONGITUDE 070 THIS PAST WEEK, AND CONSEQUENTLY M FLARES WILL VERY LIKELY BE CONFINED TO 725. THE NEXT SEVEN DAYS SHOULD BE CHARACTERIZED ON THE AVERAGE BY ONE OR TWO M FLARES/24 HOUR PERIOD.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06 MAY/1700Z ENDING 09 MAY/1700Z.

CLASS M OR GREATER 55/55/60

CLASS X 05/05/05

PROTON EVENTS 02/02/02

D. OTTAWA 10.7CM FLUX 1400Z WAS 162. PREDICTED 166/169/172.

E. MAGNETIC A-FREDERICKSBURG FOR 05 MAY WAS 10. FOR 06 MAY ABOUT 05. PREDICTED AP FOR 07-09 MAY 08/10/08.

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