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HAUS BOU 040400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 555A ISSUED 0400Z 04 MARCH 1970

CLASS M FLARES ARE EXPECTED FROM EITHER OF THE N15W66 AND N07E12
ACTIVE CENTERS DURING THE NEXT 13 HOURS.

A. THE 2 REGIONS NEAR N07E12 AND N15W66 HAVE LOST MOST OF THEIR
IMPRESSIVE DETAIL IN HYDROGEN-ALPHA AND WHITE LIGHT. IN TERMS OF
ACTIVITY THE TOTAL ENERGY OUTPUT HAS DECLINED SHARPLY, ESPECIALLY
FROM THE NE GROUPS. THE MOST RECENT OUTBURSTS HAVE OCCURRED WITHIN
THE NW CENTER. START TIMES FOR THESE M OR X EVENTS WERE 03/2030Z
(1B) AND 04/0052(1B). BRIGHT SURGES ARE IN VIEW NEAR S12 EAST
LIMB. THE AREA THERE WAS ACTIVE LAST DISK PASSAGE.

B. SAME AS PREVIOUS MESSAGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR
PERIODS BEGINNING 04 MAR/0400Z ENDING 07 MAR/0400Z

CLASS M OR GREATER 100/100/80

CLASS X 50/50/30

PROTON EVENTS 10/10/15

D. OTTAWA 10.7 CM FLUXES FOR 03/1700Z AND 2000Z WERE 170 AND 176
RESPECTIVELY.

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FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 555B ISSUED 1700Z 04 MARCH 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. HIGHLIGHTS FOR THE PERIOD 25 FEBRUARY-04 MARCH 1970--
THE INACTIVITY OF THE PREVIOUS WEEK PREVAILED FOR ONLY TWO
DAYS DURING THE ABOVE PERIOD. WITH THE PASSING INTO VIEW OF
MCMATH REGION 607 /L ABOUT 158/ 27 FEBRUARY, THE NUMBER OF
ENERGETIC FLARES REPORTED BEGAN TO RISE. THIS BASICALLY
SMALL, BIPOLAR SPOT GROUP OF GAMMA-DELTA CONFIGURATION HAS
PRODUCED A PRODIGIOUS NUMBER OF M FLARES AS WELL AS THREE X
EVENTS THESE PAST FIVE DAYS. SINCE CLEARING THE EAST LIMB
607 HAS EXHIBITED A DRAMATIC RESTRUCTURING BUT NOT AN IM-
PRESSIVE INCREASE IN AREAL EXTENT. MOREOVER NO PECULIAR
SIGNATURE HAS BEEN IDENTIFIED WITH THE TOTALITY OF ACTIVITY
RECOUNTED HERE, I.E. BOTH THE X-RAY AND CM WAVELENGTH EMISSIONS
ACCOMPANYING THESE FLARES HAVE BEEN NEITHER UNUSUALLY WEAK
NOR STRONG. A SECOND REGION /BETA-GAMMA W/DELTA/ NOW NEAR
N15W73 /L ABOUT 236/ BEGAN A MINOR CONTRIBUTION TO THE ACTIVITY
ON 01 MARCH. THIS GROUP IS DENOTED BY MCMATH OBSERVATORY
AS 595 AND IS NOT NEW IN TERMS OF THE PERIOD UNDER CONSIDERATION.
ALTHOUGH ESSENTIALLY DORMANT FOR 8 OF THE 12 DAYS IT HAS BEEN
VISIBLE, LIKE 607, 595 HAS SHOWN MARKED REORGANIZATION. A LARGE
E-TYPE SPOT GROUP WITH BRIGHT PLAGE IS LOCATED AT S14E82 /L086/.
A DISTURBED GEOMAGNETIC FIELD - ONE ANTICIPATED BY PIONEER 8
SOLAR WIND SPEED AND ELECTRIC FIELD MEASUREMENTS - BEGAN
GRADUALLY ON 28 FEBRUARY. A MINOR STORM OCCURRED 01 MARCH AS
EVIDENCED BY THE 27 RECORDED FOR THE BOULDER A-INDEX.

B. FORECAST FOR THE PERIOD 05-11 MARCH 1970--
THE FIRST TWO DAYS OF THIS PERIOD SHOULD BE DOMINATED BY A MODERATE
LEVEL OF CLASS M ACTIVITY FROM THE N15W73 /L236/ REGION. THE
CLASS M ACTIVITY FOR THE REMAINDER OF THE PERIOD WILL OCCUR
FROM THE S14E82 REGION. MCMATH REGION 607 WILL ASSUME A POSITION
TWO DAYS WEST OF CM ON 07 MARCH, HOWEVER, IT IS NOT EXPECTED TO
GIVE RISE TO A MAGNETIC STORM, ONLY MINOR FLUCTUATIONS IF ANY.
28-DAY FORECAST FOR THE PERIOD 05 MARCH-02 APRIL 1970--
A DECLINE IN THE TOTAL NUMBER OF ENERGETIC FLARES IS FORESEEN DURING
MARCH.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 04/1700Z ENDING 07/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 50/50/40

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 174. PREDICTED 177/182/190.

E. MAGNETIC A-FREDERICKSBURG FOR 03 MAR WAS 13. FOR 04 MAR
ABOUT 11. PREDICTED AP FOR 05-07 MAR 10/08/06.

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