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PP KGFF  
DE BOU 020000Z  
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 794B ISSUED 0000Z FEBRUARY 02 1968  
MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.  
A. ANOTHER IMPORTANCE ONE BRIGHT FLARE WAS OBSERVED AT 1916Z  
AT N16W14. THIS REGION HAS BEEN VERY BRIGHT AND FLUCTUATING  
THROUGHOUT THE DAY. THE REGION AT S12E44 ALSO PRODUCED ANOTHER  
IMPORTANCE ONE BRIGHT FLARE. ALL OTHER REGIONS ARE UNCHANGED.  
B. MAJOR FLARES APPEAR POSSIBLE FROM THE S12E44 REGION AND ARE  
EXPECTED AT N13W26.  
SECTIONS C AND D REMAIN UNCHANGED.  
E. FREDERICKSBURG MAGNETIC A INDEX FOR 31 JAN. 08. PREDICTED  
FOR FEB 01 ABOUT 08. PREDICTED FOR FEB 02-04 25-30/20-25/10-15.  
BT

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MILLIONTHS AREA YESTERDAY. ITS MAGNETIC STRUCTURE IS BASICALLY  
PP KGFF  
DE BOU 021815Z  
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF 795A ISSUED 1800Z FEBRUARY 2 1968

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS

A. HIGHLIGHTS FOR THE WEEK JANUARY 26 - FEBRUARY 2 CMMA 1968 CLN  
PRIMARY INTEREST THIS WEEK HAS BEEN FOCUSED ON THE MASSIVE  
SPOT GROUP CENTERED NEAR N13 W40 TODAY. THIS SPOT GROUP  
SPANS ABOUT 20 DEGREES LONGITUDE AND WAS MEASURED AS CLASS F/2200  
MILLIONTHS AREA YESTERDAY. ITS MAGNETIC STRUCTURE IS BASICALLY  
BIPOLAR BUT DELTA CONFIGURATIONS HAVE BEEN IDENTIFIED IN EACH  
THE LEADING CMMA CENTRAL AND FOLLOWING PORTIONS. UNTIL  
NOW ONLY THE CENTRAL DELTA HAS POSSESSED SIGNIFICANT FIELD  
STRENGTHS AND THE BRIGHT H-ALPHA PLAGE FEATURES HAVE BEEN  
CONCENTRATED IN THIS VICINITY. THIS LOCATION HAS BEEN THE  
SOURCE OF MANY IMPORTANCE ONE AND SMALLER FLARES. A SECOND  
SPOT GROUP CONTAINED WITHIN THIS REGION COMPLEX IS AT N15W26  
TODAY. ALTHOUGH RELATIVELY SMALL IT ALSO CONTAINS A DELTA  
CONFIGURATION. PROBABLE IMPORTANCE TWO FLARES OCCURRED IN  
THIS REGION COMPLEX AT 28/0840Z AND 31/2125Z. OTHER IMPORTANCE  
TWO FLARES WERE REPORTED THERE AT 29/1537Z 30/1922Z 1/1756Z  
1/2040Z 1/2212Z AND 2/1030Z BUT MOST WERE DISPUTED BY OTHER  
OBSERVATORIES. IN CONNECTION WITH THIS ACTIVITY AN ENHANCEMENT  
IN THE COUNTING RATE IN THE LOWEST SOLAR COSMIC RAY ENERGY  
WINDOW WAS DETECTED ON BOARD THE PN-7 SPACECRAFT FROM JAN. 29-  
31. THROUGHOUT THE WEEK DEKAMETRIC CONTINUUM RADIATION FROM  
APPROXIMATELY 28 TO 41 MHZ WAS RECORDED AND WAS ASSUMED TO HAVE  
ITS ORIGIN HIGH IN THE CORONA ABOVE THIS COMPLEX REGION. THE  
MOST INTENSE CONTINUUM WAS OBSERVED ON THE 27TH. A REGION  
LOCATED AT S 2 E35 TODAY PRODUCED A FLARE REPORTED AS IMPORTANCE  
TWO AT 1/1917Z CMMA HOWEVER OTHER OBSERVATORIES CALLED IT  
IMPORTANCE ONE. SEVERAL SMALLER FLARES WERE ALSO OBSERVED  
THERE. THIS REGION IS SMALL AND DOES NOT APPEAR TO BE GROWING.  
A LARGE CMMA E/1100 CMMA BUT INACTIVE SPOT GROUP EXISTS AT  
N12/E09 TODAY. THE 10.7 CM SOLAR RADIO NOISE FLUX CLIMBED  
STEADILY FROM 183 ON THE 29TH TO 267 ON 1 FEB. CMMA THE LATTER  
ESTABLISHING A NEW HIGH FOR THIS INDEX OF SOLAR ACTIVITY DURING  
THE PRESENT CYCLE.

B. FORECAST FOR THE WEEK FEBRUARY 3-9 CMMA 1968 CLN MAJOR  
FLARES ARE EXPECTED FROM THE IMPRESSIVE SPOT GROUP NOW SITUATED  
NEAR N13 W40 THROUGH FEB. 3 OR 4. BASED UPON THE REGIONS  
DEVELOPMENT CURVE A GRADUAL RATE OF DECLINE MAY BE EXPECTED  
THEREAFTER RESULTING IN THE VERY INFREQUENT PRODUCTION OF  
IMPORTANCE TWO OR LARGER FLARES. ADDITIONAL FLARES AS LARGE  
AS IMPORTANCE TWO MAY BE POSSIBLE FROM THE S12 E35 REGION  
ALTHOUGH THIS REGION NOW APPEARS TO BE DECLINING. NO SIGNIFICANT  
RETURNING REGIONS ARE ANTICIPATED DURING THE WEEK. ALTHOUGH  
POSSIBLE CMMA SIGNIFICANT PROTONS ARE NOT NOW CONSIDERED  
LIKELY FROM MAJOR FLARES IN THE S13 W40 REGION.

C. 8 DAY FORECAST FOR FEBRUARY 3 - MARCH 1 CMMA 1968 CLN  
SOLAR ACTIVITY SHOULD BE HIGHER THAN NORMAL WITHIN THE PERIODS  
FEB. 3-7 AND FEB. 21-MAR. 1.

D. THE DAILY FORECAST FOR FEB. 3-5 AND EXPECTED MEAN FORECAST  
FOR FEB. 4-9 CMMA 1968

DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

IMPORTANCE TWO OR GREATER 60-60-50 /20/

IMPORTANCE THREE OR GREATER 10-10-8 /5/

PROTON EVENTS 10-15-15 /15/

BT

10.7 cm flux