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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 040 ISSUED 2200Z 09 FEBRUARY 1972

ENERGETIC LIMB ACTIVITY IS POSSIBLE.

A. ACTIVITY ON THE VISIBLE DISK REMAINS AT A LOW LEVEL.  
ONLY NONENERGETIC SUBFLARES HAVE BEEN REPORTED FROM DISK  
REGIONS TODAY. ACTIVE PROMINENCES ARE STILL VISIBLE ON THE  
SE LIMB NEAR S15 WHERE LOOP PROMINENCES WERE OBSERVED  
BETWEEN 0950 AND 1714 ON 8 FEB. THIS OPTICAL ACTIVITY WAS  
ASSOCIATED WITH A CLASS M-9 EVENT WHICH BEGAN BEFORE 08/0900Z.  
A SMALL PLAGE REGION HAS ROTATED ONTO THE DISK IN THIS AREA  
BUT IT DOES NOT APPEAR TO HAVE BEEN THE SOURCE OF YESTERDAY'S  
ACTIVITY. THE GEOMAGNETIC FIELD IS QUIET.

B. ENERGETIC ACTIVITY POSSIBLE FROM THE SE LIMB. SIZE AND  
COMPLEXITY OF THE ASSOCIATED ACTIVE REGION IS UNKNOWN, THIS  
REGION IS EXPECTED TO ROTATE ONTO THE VISIBLE DISK  
TOMORROW. QUIET GEOMAGNETIC CONDITIONS EXPECTED TO PERSIST  
FOR NEXT 24 HOURS. A RECURRENT INCREASE IS EXPECTED ON 12 FEB.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS  
BEGINNING 10 FEB/0000Z ENDING 12 FEB/2400Z.

CLASS M OR GREATER (35)/40/50

CLASS X 1/1/5

PROTON EVENT 1/1/5

D. OTTAWA 10.7 CM FLUXES FOR 09/1400Z 1700Z AND 2000Z WERE  
109, 109 AND 108. PREDICTED 10.7 CM FLUXES FOR 10 - 12 FEB  
ARE 109/110/112.

E. MAGNETIC A-FREDERICKSBURG FOR 08 FEB WAS 06. FOR 09 FEB  
ABOUT 03. PREDICTED AP FOR 10-12 FEB ARE 05/10/20.

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SESC-PRF 066 ISSUED 09 FEBRUARY 1972

HIGHLIGHTS FOR 02-08 FEBRUARY 1972--

ACTIVITY ON THE VISIBLE DISK OF THE SUN WAS VERY LOW DURING THE PAST SEVEN DAYS. DAILY FLARE TOTALS RANGED FROM ONE SUB-FAINT FLARE ON 05 FEBRUARY TO SEVEN SUBFLARES ON 07 FEBRUARY. OPTICALLY THE MOST SIGNIFICANT WAS AN IMPORTANCE 2F FLARE WHICH ACCOMPANIED THE DISRUPTION OF A FILAMENT NEAR S07W65 AT 04/1900Z. THE EVENT DID NOT PRODUCE DETECTABLE RADIO OR X-RAY EMISSIONS. ACTIVITY ON BOTH THE NORTHEAST AND SOUTHEAST LIMBS INCREASED ON 07 FEBRUARY AS A COMBINATION OF OLD AND NEW ACTIVE REGIONS BEGAN TO ROTATE INTO VIEW. SO FAR THE MOST SIGNIFICANT LIMB ACTIVITY HAS BEEN THE FORMATION OF A LARGE BRIGHT ARCHED STRUCTURE NEAR SE15 AT ABOUT 08/0930Z. PRELIMINARY DATA INDICATE THAT AN X-RAY EVENT POSSIBLY AS LARGE AS CLASS M8 WAS IN PROGRESS AT 08/0930Z. A SHORTWAVE FADEOUT WAS REPORTED. THIS MIGHT BE ASSOCIATED WITH PREVIOUSLY ACTIVE REGION 015 /S16, L-095, MCMATH 693/ WHICH, AS OF 09/0000Z, SHOULD BE CENTERED SOME 14 DEGREES BEHIND THE LIMB. IN ADDITION TO THIS ACTIVITY THE FOLLOWING EVENTS WITH NO OPTICAL COUNTERPARTS WERE OBSERVED CLN A CLASS C1 LONG-DURATION X-RAY BURST WHICH BEGAN AT 07/1410Z AND ENDED AT ABOUT 07/1830Z, A CLASS C6 X-RAY BURST AT ABOUT 08/0700Z, AND A 33 FLUX UNIT 2700 MHZ RADIO BURST AT 08/0815Z.

THE GEOMAGNETIC FIELD WAS UNSETTLED ON 02 FEBRUARY AND AGAIN DURING LOCAL NIGHTTIME ON 07-08 FEBRUARY.

FORECAST FOR 10-16 FEBRUARY 1972--

SOLAR ACTIVITY IS EXPECTED TO INCREASE TO A MODERATE LEVEL AS THE REGIONS NOW ON AND BEHIND THE EAST LIMB ROTATE FULLY ONTO THE DISK. UNSETTLED TO ACTIVE GEOMAGNETIC CONDITIONS ARE EXPECTED TO PREVAIL 12-20 FEBRUARY.

28-DAY FORECAST FOR 10 FEBRUARY-08 MARCH 1972--

SOLAR ACTIVITY IS EXPECTED TO BE AT A MODERATE LEVEL THROUGH 24 FEBRUARY AND RETURN TO A LOW LEVEL THEREAFTER. UNSETTLED TO ACTIVE GEOMAGNETIC CONDITIONS ARE EXPECTED 12-20 FEBRUARY.  
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8-DAY FORECAST FOR 10 FEBRUARY-08 MARCH 1972--

SOLAR ACTIVITY IS EXPECTED TO BE AT A MODERATE LEVEL THROUGH 24 FEBRUARY AND RETURN TO A LOW LEVEL THEREAFTER. UNSETTLED TO ACTIVE GEOMAGNETIC CONDITIONS ARE EXPECTED 12-20 FEBRUARY.

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