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HFUS BOU 180500

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 169A ISSUED 0500Z 18 JUNE 1971

SPORADIC CLASS C SOLAR ACTIVITY IS EXPECTED DURING THE  
NEXT 24 HOURS.

A. DURING THE PAST SEVEN HOURS, VERY LITTLE SOLAR ACTIVITY  
HAS BEEN REPORTED. A CLASS C X-RAY BURST WITH A PEAK FLUX  
OF 0.004 ERG/CM<sup>2</sup>/SEC OCCURRED AT 18/0024Z, BUT NO OBVIOUS  
OPTICAL SOURCE FOR THIS EVENT WAS OBSERVED. DATA FROM THE  
STANFORD 9.1CM RADIOSPECTROHELIOGRAPH INDICATE THAT THE  
RETURNING REGION NEAR NE08 IS NOT IN AN ADVANCED STAGE OF  
DEVELOPMENT AND PROBABLY IS INCAPABLE OF PRODUCING ENERGETIC  
FLARES DURING THE NEXT 24 HOURS. RECENT DEVELOPMENT HAS  
OCCURRED IN THE REGION AT S05W03, WHERE A C-TYPE SPOT GROUP  
AND MODERATELY ENHANCED PLAGE PRESENTLY ARE VISIBLE.  
POINT BRIGHTENINGS HAVE BEEN OBSERVED ALONG THE NEUTRAL LINE  
OF THIS S05W03 REGION. OCCASIONAL FLUCTUATIONS ALSO HAVE  
BEEN OBSERVED IN THE PLAGE OF THE REGIONS AT N12W54 AND S14W54.  
THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE  
PAST SEVEN HOURS.

B. DURING THE THREE-DAY FORECAST PERIOD, ONLY SPORADIC  
CLASS C FLARES ARE ANTICIPATED. THE GEOMAGNETIC FIELD  
PROBABLY WILL REMAIN RELATIVELY QUIET DURING THE NEXT 72  
HOURS, ALTHOUGH SHORT PERIODS OF UNSETTLED CONDITIONS MAY  
OCCUR DURING THE INTERVAL 19 JUNE/1200Z TO 20 JUNE/1200Z.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE  
24 HOUR PERIODS BEGINNING 18 JUNE/0000Z ENDING 20 JUNE/2400Z.

CLASS M OR GREATER 10/15/20

CLASS X 01/01/01

PROTON EVENTS 01/01/01

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HFUS BOU 182200

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 169B ISSUED 2200Z 18 JUNE 1971

CLASS C FLARES ARE EXPECTED DURING THE NEXT 24 HOURS.

A. DURING THE PAST 17 HOURS REGION 130 (N10E77) HAS PRODUCED SEVERAL FLARES, TWO OF WHICH WERE CLASS C X-RAY EVENTS. SEVERAL ACTIVE PROMINENCES AND BRIGHT SURGES ON THE EAST LIMB HAVE ALSO BEEN ASSOCIATED WITH REGION 130. REGION 125 (S05W14) CONTINUED TO DEVELOP, BUT IT HAS NOT PRODUCED AN EVENT. A GEOMAGNETIC SUB-STORM WAS EVIDENT BETWEEN 0700Z AND 0800Z ON THE ANCHORAGE AND BOULDER MAGNETOMETERS.

B. CLASS C EVENTS ARE ANTICIPATED DURING THE NEXT 72 HOURS. THE GEOMAGNETIC FIELD IS EXPECTED TO BE RELATIVELY QUIET, ALTHOUGH SHORT PERIODS OF MINOR DISTURBANCE MAY OCCUR.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 19 JUNE/0000Z ENDING 21 JUNE/2400Z.

CLASS M OR GREATER 15/15/20

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7CM FLUXES FOR 18/1400Z, 18/1700Z AND 18/2000Z WERE 92,92 AND 91 RESPECTIVELY. PREDICTED 10.7CM FLUX FOR 19-21 JUNE IS 93/94/95.

E. MAGNETIC A-FREDERICKSBURG FOR 17 JUNE WAS 09. FOR 18 JUNE ABOUT 08. PREDICTED AP FOR 19-21 JUNE IS 10/13/10.

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