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PP KGFF  
DE BOU 071830Z  
HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 285A ISSUED 1700Z 07 JUNE 1969

CLASS X FLARES ARE EXPECTED IN THE NEXT SIX HOURS.

A. DEVELOPMENT IN THE REGION AT S14E37 HAS RESULTED IN TWO CLASS X FLARES BEGINNING 07/0016Z AND 07/0807Z. A FLARE FROM THIS REGION BEGINNING 07/0743Z MAY HAVE BEEN A CLASS M EVENT. GROWTH IS ALSO REPORTED THROUGHOUT THE NORTHEAST COMPLEX OF GROUPS, MOST NOTABLY IN THE INTERACTIVE REGION BETWEEN GROUPS AT N14E08 AND N11E10. PENUMBRAL DISTENSION IN N18E51 PENUMBRA IS TECHNICALLY INTERESTING AND SPOT GROWTH IN SMALL TRAILERS IS REPORTED. THE GROUP AT N12E36, WHICH LIKE THE SE GROUP IS MAGNETICALLY BETA/GAMMA, PRODUCED A CLASS M FLARE BEGINNING 07/0949Z. NEUTRAL LINES WITHIN BOTH MAGNETICALLY COMPLEX (BETA/GAMMA) REGIONS APPEAR QUITE TORTUOUS. DESPITE HIGH FLARE ACTIVITY LEVEL, HIGH ENERGY PROTON FLUXES NEAR EARTH REMAIN AT BACKGROUND. GEOMAGNETIC FIELD IS RELATIVELY QUIET.

B. CLASS X FLARES EXPECTED FROM S14E37, N11E10 AND/OR N12E36 REGION. MAGNETIC DISTURBANCE OF STORM INTENSITY EXPECTED DURING 12-15Z PERIOD 09 JUNE 69.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 07 JUNE/1700Z ENDING 10 JUNE/1700Z.

CLASS M OR GREATER	95/95/95
CLASS X	60/60/60
PROTON EVENTS	35/40/45

THE PRESENT C, M, AND X CLASSIFICATIONS FOR FLARES ARE DEFINED AS FOLLOWS CLN

CLASS C--SOLAR EVENTS NOT ASSOCIATED WITH ANY SIGNIFICANT X-RAYS OR RADIO NOISE.

CLASS M--SOLAR EVENTS WHICH ARE ACCOMPANIED BY SIGNIFICANT X-RAY PRODUCTION, GREATER THAN .01 ERGS PER SQUARE CENTIMETER PER SECOND IN THE 0-8 ANGSTROM BAND, OR .001 ERGS PER SQUARE CENTIMETER PER SECOND IN THE 0.5-5 ANGSTROM RANGE, COMPARABLE SUDDEN IONOSPHERIC DISTURBANCE (SHORT WAVE FADEOUT OR SUDDEN PHASE ANOMALY), OR BY 10 CM RADIO NOISE OUTBURST OF AT LEAST 75 FLUX UNITS OVER BACKGROUND.

CLASS X--SOLAR EVENTS WHICH ARE ACCOMPANIED BY GREAT X-RAY PRODUCTION, GREATER THAN .1 ERGS PER SQUARE CM PER SEC IN THE 0-8 ANGSTROM BAND, OR .01 ERGS PER SQ CM PER SEC IN THE 0.5-5 ANGSTROM BAND, COMPARABLY GREAT SID (SUDDEN IONOSPHERIC DISTURBANCE), OR BY A 10 CM RADIO NOISE OUTBURST OF MORE THAN 1000 FLUX UNITS OVER BACKGROUND AND DURATION GREATER THAN 10 MINUTES.

D. OTTAWA 10.7 CM FLUX TODAY IS 216. PREDICTED 225/225/225.

E. N/A

F. KP ESTIMATED FOR 1200-1500Z WAS 03. KP FORECAST FOR NEXT 24 HOURS PER KP 15.3; 3/3/3/3/3/2/2/3.

SOLIERWARN  
BT

NNNNUUU  
PP KGFF  
DE BOU 072300Z  
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 285B ISSUED 2300Z 07 JUNE 1969  
CLASS X FLARES ARE EXPECTED IN THE NEXT 18 HOURS.  
A. FLARE ACTIVITY HAS DECREASED DURING THE PAST SIX HOURS. THE  
REGIONS LOCATED IN THE NORTH EAST WHICH SHOW MAGNETICALLY COMPLEX  
STRUCTURES ARE STILL POTENTIAL FLARE PRODUCING REGIONS.  
SECTIONS B C AND D REMAIN UNCHANGED FROM SDF 285A.  
E. MAGNETIC A-FREDERICKSBURG FOR 06 JUNE WAS 03. FOR 07 JUNE ABOUT  
07. PREDICTED AP FOR 8-10 JUNE 10/15/20.  
BT