

NNNNUUUV
PP KGFF
DE BOU 131715Z
HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 291A ISSUED 1700Z 13 JUNE 1969
CLASS M FLARES ARE EXPECTED IN THE NEXT SIX HOURS WITH CLASS
X EVENTS POSSIBLE

A. HIGHLIGHTS FOR THE PERIOD 06 JUNE-12 JUNE 1969
SOLAR ACTIVITY REMAINED AT A HIGH LEVEL THROUGHOUT THE WEEK
WITH MAJOR ACTIVITY COMING FROM THE S14L089 REGION. CLASS X
EVENTS WERE OBSERVED FROM THIS REGION ON 06/0947Z /1B/,
07/0017Z /1N/, AND 07/0307Z /SB/. CLASS M FLARES WERE OBSERVED
ON 06/0432Z /SN/, 06/0455Z /1N/, 06/0600Z /1N/, 06/2353Z /SB/,
07/0743Z /1N/, 08/0155Z /SN/, AND 11/0140Z /1N/. FROM 08 JUNE
THROUGH 12 JUNE, ACTIVITY DIMINISHED TO NUMEROUS SUBFLARES AND
SMALL IMPORTANCE ONE FLARES. THE F-TYPE SUNSPOT GROUP CURRENTLY
SHOWS AN AREA OF 1480 MILLIONTHS, SHOWS STRONG FIBRIL AND DARK
UMBRAL FEATURES IN H-ALPHA, MODERATELY BRIGHT PLAGE, AND A VERY
HOT 9.1 CM RADIO NOISE SOURCE. MAJOR ACTIVITY WAS ALSO
OBSERVED SCATTERED THROUGHOUT THE NORTH-CENTRAL MERIDIAN REGIONS
AT N10L120 ON 06/1604Z /CLASS X, 2N/, AT N10L097 ON 07/0945Z
/CLASS M, 2N/, AT N19L084 ON 08/0748Z /CLASS M, 1B/, AND AT
N09L092 ON 11/1615Z /CLASS X, 2B/. THIS COMPLEX OF REGIONS
SHOWS JOINT PLAGE AREAS WITH CIRCULAR, DARK FILAMENTS ALONG THE
NEUTRAL LINE IN THE N09L092 REGION WHERE THE 2B FLARE OCCURRED.
A SATELLITE ENHANCEMENT OF LOW ENERGY PROTONS WAS OBSERVED FROM
08/0000Z TO 10/0000Z. THULE RIOMETERS SHOWED A MAXIMUM
ABSORPTION OF 2.0 DB AT 08/2100Z. AN ADDITIONAL SATELLITE
ENHANCEMENT OF LOW ENERGY PROTONS WAS OBSERVED FOLLOWING THE
2B FLARE /11/1617Z/ AT 11/2230Z. THE GEOMAGNETIC FIELD WAS
DISTURBED ON 08 JUNE. THE 10 CM SOLAR FLUX REACHED A MAXIMUM
VALUE OF 258 F. U. AT 11/1700Z.

B. FORECAST FOR THE WEEK 14-19 JUNE 1969
MAJOR ACTIVITY IS EXPECTED TO CONTINUE FROM THE N09-18L110-060
AND S14L089 REGIONS INTERMITTENTLY THROUGHOUT THE WEEK.

28-DAY FORECAST FOR 14 JUNE-12 JULY 1969
SOLAR ACTIVITY SHOULD DECREASE AFTER 17 JUNE AS THE ACTIVE
CENTERS ROTATE OFF THE WEST LIMB.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 13/1700Z ENDING 16/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 70/70/60

PROTON EVENTS 40/30/30

D. OTTAWA 10.7 CM FLUX TODAY IS . PREDICTED 215/205/195.

E. N/A.

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

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HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 291B ISSUED 2300Z 13 JUNE 1969
CLASS M FLARES ARE EXPECTED WITH CLASS X EVENTS POSSIBLE DURING
THE NEXT 18 HOURS.

A. AN IMPORTANCE 2N FLARE REACHED MAXIMUM AT 13/1621Z AFTER
BEGINNING AS AN IMPORTANCE 1N FLARE AT 13/1545Z AT S27E72. A
BSD ACCOMPANIED THIS FLARE, HOWEVER, THE SIMPLE TYPE THREE RADIO
BURST WAS SMALL AND THE FLARE WAS CLASSIFIED AS CLASS C. WHILE
THIS FLARE WAS STILL IN PROGRESS, A CLASS M EPL, IMPORTANCE 3,
OCCURRED AT 13/1650Z AT NE14. THE REGION AT N12W48 APPEARS TO BE
REJUVENATED BY FORMING A DARK FILAMENT IN THE SAME REGION WHERE
THE 2B FLARE OF 13/1617Z OCCURRED. THE SPOT STRUCTURE AT S14W47
IS SLOWLY BREAKING UP, BUT MODERATELY BRIGHT PLAGE HAS BEEN
ADDED NORTH OF THE LARGE UMBRA. THE GEOMAGNETIC FIELD IS QUIET.

B. PARTS B, C, AND D REMAIN UNCHANGED FROM SDF 291A.

E. MAGNETIC A-FREDERICKSBURG FOR 12 JUNE WAS 14. FOR 13 JUNE
ABOUT 11. PREDICTED AP FOR 14-16 JUNE, 15/12/10.

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