

0

ESSA/SPACE DISTURBANCE  
FORECAST CENTER

V

MAY 10 16 57 69

NBSESSA BLDR

ATTN C. KAPPLER  
ROOM 780D

NBC Copy  
5/1869

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLORADO SDF NUMBER 265A ISSUED 1700Z 18 MAY 1969  
CLASS M EVENTS ARE LIKELY DURING THE NEXT 12 HOURS  
A. THE SOLAR REGION OF GREATEST INTEREST TODAY IS NOW APPEARING OVER THE EAST LIMB NEAR N10. IT IS STILL TOO NEAR THE LIMB FOR GOOD VIEWING AND EVALUATION\ BUT BRIGHT PLAGE AND A BIPOLAR SPOT GROUP ARE VISIBLE THERE. THE LEADING MEMBER OF THE SPOT GROUP IS FAIRLY LARGE\ ESTIMATED TO BE NEAR 200 MILLIONTHS AREA. SEVERAL SUBFLARES AND IMP 1 FLARES HAVE BEEN REPORTED IN THIS REGION SINCE IT COMMENCED EAST LIMB PASSAGE EARLY YESTERDAY. ONLY A FEW SUBFLARES HAVE BEEN REPORTED FROM THE REGION NEAR S15E68 AND REGION CHARACTERISTICS INDICATE THAT IT IS RELATIVELY STABLE. THE SPOT GROUP THERE APPEARS TO BE COMPOSED OF TWO BIPOLAR GROUPS\ EACH ALIGNED E-W WITH CLOSE N-S SPACING. ALL OF THE REGIONS ON THE WESTERN HALF OF THE VISIBLE DISK APPEAR TO BE STABLE OR DECAYING. THE N12W66\ N17W71 AND N16W50 SPOT GROUPS HAVE PRODUCED ONLY OCCASIONAL SMALL FLARES.  
B. MAJOR FLARES/CLASS M AND X/ MUST BE CONSIDERED LIKELY FROM THE NORTHEAST LIMB REGION UNTIL THE REGION CAN BE BETTER EVALUATED. THE S15E68 AND THE N12W66 AND N17W71 REGIONS ARE CAPABLE OF CLASS M EVENTS BUT DO NOT APPEAR LIKELY TO PRODUCE CLASS X EVENTS. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNDISTURBED.  
C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18/1700Z ENDING 20/1700Z  
CLASS M OR GREATER 80/80/80  
CLASS X 15/20/15  
PROTON EVENTS 10/10/10  
SOLTERWARN

NOTE- THIS FORECAST IS INCOMPLETE IN THAT THE OTTAWA FLUX AND ESTIMATED KP FRCST ARE UNAVAILABLE AT THIS TIME

159 — 162/160/159

NNNN

2 — 33222233

END SENT 10  
PLS ACK

ENND

RBD

OK TNX

NBSESSA BLDR

NNNNUV  
PP KGFF  
DE BOU 181725Z  
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLORADO  
SDF NUMBER 265A ISSUED 1700Z 18 MAY 1969  
CLASS M EVENTS ARE LIKELY DURING THE NEXT 12 HOURS  
A. THE SOLAR REGION OF GREATEST INTEREST TODAY IS NOW APPEARING OVER THE EAST LIMB NEAR N10. IT IS STILL TOO NEAR THE LIMB FOR GOOD VIEWING AND EVALUATION, BUT BRIGHT PLAGE AND A BIPOLAR SPOT GROUP ARE VISIBLE THERE. THE LEADING MEMBER OF THE SPOT GROUP IS FAIRLY LARGE, ESTIMATED TO BE NEAR 200 MILLIONTHS AREA. SEVERAL SUBFLARES AND IMP 1 FLARES HAVE BEEN REPORTED IN THIS REGION SINCE IT COMMENCED EAST LIMB PASSAGE EARLY YESTERDAY. ONLY A FEW SUBFLARES HAVE BEEN REPORTED FROM THE REGION NEAR S15E68 AND REGION CHARACTERISTICS INDICATE THAT IT IS RELATIVELY STABLE. THE SPOT GROUP THERE APPEARS TO BE COMPOSED OF TWO BIPOLAR GROUPS, EACH ALIGNED E-W WITH CLOSE N-S SPACING. ALL OF THE REGIONS ON THE WESTERN HALF OF THE VISIBLE DISK APPEAR TO BE STABLE OR DECAYING. THE N12W66, N17W71 AND N16W50 SPOT GROUPS HAVE PRODUCED ONLY OCCASIONAL SMALL FLARES.  
B. MAJOR FLARES/CLASS M AND X/ MUST BE CONSIDERED LIKELY FROM THE NORTHEAST LIMB REGION UNTIL THE REGION CAN BE BETTER EVALUATED. THE S15E68 AND THE N12W66 AND N17W71 REGIONS ARE CAPABLE OF CLASS M EVENTS BUT DO NOT APPEAR LIKELY TO PRODUCE CLASS X EVENTS. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNDISTURBED.  
C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18/1700Z ENDING 20/1700Z  
CLASS M OR GREATER 80/80/80  
CLASS X 15/20/15  
PROTON EVENTS 10/10/10  
D. OTTAWA 10.7 CM FLUX TODAY IS 159. PREDICTED 162/160/158.  
E. KP ESTIMATED FOR 1200-1500Z WAS 2. KP FORECAST FOR NEXT 24 HOURS PER KP 15.3 3/2/2/2/2/2/3/3.  
SOLTEPWARN  
BT

NNNNUV

PP KGFF

DE BOU 182300Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 265B ISSUED 2300Z 18 MAY 1969

CLASS M EVENTS ARE EXPECTED DURING THE NEXT 18 HOURS.

A. THE REGION NEAR N10E78 IS CONTINUING TO PRODUCE SMALL BUT  
ENERGETIC FLARES. IMPORTANCE ONE FLARES AT 1713Z AND 2035Z  
PRODUCED MODERATE X-RAYS AND IONOSPHERIC EFFECTS, AND SMALL TO  
MODERATE RADIO NOISE EMISSION. THE EARLIER FLARE APPEARED TO BE  
FROM A SOURCE STILL BEYOND THE LIMB, INDICATING THAT MORE OF THIS  
REGION IS YET TO ROTATE OVER. THE OTHER VISIBLE REGIONS ARE  
RELATIVELY QUIET AND ARE STABLE OR DECLINING.

B. CLASS M FLARES ARE EXPECTED AND CLASS X EVENTS POSSIBLE FROM THE  
N10E78 REGION. FLARES EXCEEDING CLASS M ARE NOT EXPECTED FROM ANY  
OF THE OTHER VISIBLE REGIONS.

SECTIONS C AND D REMAIN UNCHANGED FROM SDF 265A.

E. MAGNETIC A-FREDERICKSBURG FOR 17 MAY WAS 13. FOR 18 MAY ABOUT 10.  
PROJECTED AP FOR 19-21 MAY 12/8/7.

BT