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ESSA/SPACE DISTURBANCE
FORECAST CENTER

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MAY 18 16 57:59

NBSESSA BLDR

ATTN C. KAPPLER-
ROOM 780D

NBC Copy
5/18/69

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 APPEAR-
ING 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 18
PLS ACK

ENND

RRD

OK TNX

NBSESSA BLDR

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

FROM SPACE DISTURBANCE FORECAST CENTER FSSA BOULDER COLORADO
SDF NUMBER 265A ISSUED 1700Z 18 MAY 1969

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C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 18/1700Z ENDING 20/1700Z

CLASS M OR GREATER 30/80/80

CLASS X 15/20/15

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX TODAY IS 159. PREDICTED 162/160/158.

F. 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.

SOLTERWARN

BT

NNNNUUU
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.
PREDICTED AP FOR 19-21 MAY 12/8/7.

BT