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PP KGFF
DE BOU 181720Z
HERE IS THE MSG FOR REFILE
NOTE PASS ALSO TO H E N V - HOUSTON

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 053A ISSUED 1700Z OCTOBER 18 1968
MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.
A. HIGHLIGHTS FOR THE PERIOD OCTOBER 11-18, 1968 CLN A FLARE
WHICH BEGAN AT 16/0017Z NEAR N20 EAST LIMB WAS REPORTED TO BE
IMPORTANCE 2B. IT WAS ACCCOMPANIED BY STRONG X-RAY EMISSION,
BUT ONLY WEAK RADIO NOISE EMISSION, PROBABLY BECAUSE OF ITS LIMB
PROXIMITY. MANY SMALL FLARES AND SURGES HAVE OCCURRED IN THIS
REGION. BACKGROUND X-RAY FLUXES, AS OBSERVED BY SATELLITES, ROSE
SIGNIFICANTLY AS THIS REGION WAS ROTATED FARTHER ONTO THE DISK.
ON OCTOBER 17, THE SPOT GROUP WAS MEASURED AS F/440 AND BETA-
GAMMA MAGNETIC CLASSIFICATION WAS INFERRED. ANOTHER REGION WHICH
IS NOW NEAR N21W12 CONTAINS A C/270 SPOT GROUP. THIS SPOT GROUP
IS GRADUALLY DECLINING IN AREA, BUT THE H-PLAGE REMAINS MODERATELY
BRIGHT. IT PRODUCED THREE IMPORTANCE 1 FLARES OCTOBER 12-13.
IMPORTANCE 2 PROBABLE LOOP PROMINENCES WERE OBSERVED NEAR S18
EAST LIMB IN PROGRESS AT 18/1542Z. A MINOR GEOMAGNETIC DISTURBANCE
BEGAN GRADUALLY ABOUT 0300Z OCTOBER 12, AND LASTED ABOUT 60 HOURS.
B. FORECAST FOR THE WEEK OCTOBER 19-25, 1968 CLN MAJOR FLARES
ARE EXPECTED FROM THE N16E65 REGION, OCCURRING AT AN AVERAGE RATE
OF ONE EVERY 2-3 DAYS. SUCH FLARES FROM THIS REGION ARE LIKELY
TO PRODUCE STRONG X-RAY EMISSION AND RESULTANT LARGE IONOSPHERIC
EFFECTS. STRONG, AND STILL INCREASING, MAGNETIC GRADIENTS, AND A
GAMMA CONFIGURATION, ARE NOW INFERRED FROM H-ALPHA OBSERVATIONS
OF THIS REGION. THE MAGNETIC STRUCTURE OF THE REGION IS EXPECTED
TO BECOME INCREASINGLY COMPLEX. THE PROBABILITIES FOR FLARE
PRODUCED PROTONS AND GEOMAGNETIC ACTIVITY SHOULD INCREASE ACCORD-
INGLY. OCCASIONAL MAJOR FLARES ARE ALSO POSSIBLE FROM THE N21W12
REGION, AND SHOULD PRODUCE MODERATE X-RAY EMISSION.
C. 28 DAY FORECAST FOR OCTOBER 19-NOVEMBER 15, 1968 CLN A HIGH
LEVEL OF SOLAR ACTIVITY IS EXPECTED THE FIRST HALF OF THE PERIOD
WITH MODERATE ACTIVITY THEREAFTER.
D. DAILY FORECAST FOR OCTOBER 19-21 AND EXPECTED MEAN FORECAST
FOR OCTOBER 22-25, 1968 CLN
DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 60-55-45 /40/
IMPORTANCE THREE OR GREATER 15-15-10 /10/
PROTON EVENTS 10-15-20 /10/
OTTAWA 10.7 CM FLUX TODAY IS 150. PREDICTED 155-158-160 /156/
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DE BOU 182300Z

HERE IS THE MESSAGE FOR REFILE

PASS ALSO TO H E N V HOUSTON

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 053B ISSUED 2300Z 18 OCTOBER 1968.

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS
SECTIONS A B AND C REMAIN UNCHANGED FROM SDF 053A.

FORECASTS FOR 19-21 OCTOBER

D. DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

IMPORTANCE TWO OR GREATER 50/50/50

IMPORTANCE THREE OR GREATER 15/15/10

PROTON EVENTS 10/15/20

E. MAGNETIC A-FREDERICKSBURG FOR 17 OCT WAS 06. FOR 18 OCT
ABOUT 06. PREDICTED UNDER 10/UNDER 10/20.

SOLTERWARN

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