

NNNNUUUV
PP KGFF
DE BOU 081745Z
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 074A ISSUED 1700Z NOVEMBER 08 1968
MAJOR FLARES ARE POSSIBLE BUT NOT EXPECTED DURING THE NEXT 12
HOURS.

A. HIGHLIGHTS FOR THE PERIOD 31 OCTOBER-8 NOVEMBER 1968 CLN THE
IMPORTANCE 3B FLARE WHICH OCCURRED 30/2343Z OCTOBER AT S15W34
BEGAN A SERIES OF FLARES IN THIS REGION WHICH INCLUDED IMPORTANCE
2B FLARES AT 31/2230Z OCTOBER, 01/0806Z AND 02/0941Z NOVEMBER.
MANY SMALLER FLARES OCCURRED IN THE REGION, ENDING WITH AN IMP
1B AT 04/0512Z AT WEST LIMB. MOST OF THESE FLARES PRODUCED STRONG,
AND SOMETIMES GREAT, RADIO NOISE AND X-RAY EMISSION. PROTONS FROM
THE 30/2343Z FLARE WERE FIRST DETECTED BY VLF IONOSPHERIC EFFECTS
AT 31/0500Z BUT FIRST DIRECT DETECTION WAS BY VELA SATELLITE AT
31/1350Z, AT ENERGIES GREATER THAN 25 MEV. A PCA WAS DETECTED BY
THE THULE 30 MHZ RIOMETER AT ABOUT THE SAME TIME. AN EARLY MAXIMUM
OCCURRED 31/1500-1600Z WHEN ATTENUATION OF THE GALACTIC RADIO
NOISE REACHED A MAXIMUM OF ABOUT 3.9 DB AT THULE. ENHANCED PROTON
FLUX AND PCA CONTINUED THROUGH 04 NOV., WITH NUMEROUS INFLECTIONS
DUE TO SUBSEQUENT FLARES. A GEOMAGNETIC STORM BEGAN ABOUT 31/1025Z,
APPARENTLY ATTRIBUTABLE TO THE FLARE ACTIVITY WHICH COMMENCED
29/1218Z. THIS STORM WAS DECLINING BY 01/0600Z, BUT A SECOND STORM
BEGAN AT ABOUT 01/1147Z, DUE TO THE 30/2343Z IMP 3B FLARE AND
SUBSEQUENT FLARES. THE MAGNETIC FIELD REMAINED DISTURBED THROUGH
04 NOV. THE FORBUSH DECREASE WHICH BEGAN 29/0840Z REACHED NEARLY
10 PERCENT REDUCTION IN COUNTING RATE IN THE 30 OCT.-03 NOV.
PERIOD, AND COUNTING RATES ARE STILL DEPRESSED TODAY. A REGION
AT N20E40 IS A DELTA MAGNETIC CONFIGURATION AND HAS GROWN FROM
200 TO 700 MILLIONTHS AREA IN THE PAST 24 HOURS. THE PLAGE IS
COMPACT BUT NOT OF OUTSTANDING SIZE OR BRIGHTNESS. A NEW REGION
HAS FORMED AT S16W79 AND SHOULD GROW AS IT PASSES WEST LIMB.

B. FORECAST FOR THE WEEK 09-15 NOVEMBER 1968 CLN ACTIVITY SHOULD
OCCUR PRIMARILY AS FREQUENT SMALL FLARES FROM THE GROWING COMPLEX
REGION AT N20E40. CONTINUED DEVELOPMENT THERE MAY BRING A
POSSIBILITY OF MAJOR FLARES WITH IMPORTANT RADIO AND PARTICLE
EMISSION. RETURNING REGIONS ARE DUE AT EAST LIMB IN THE NORTH
ON 11 AND 13 NOVEMBER.

C. 28 DAY FORECAST FOR 09 NOVEMBER-06 DECEMBER 1968 CLN SOLAR
ACTIVITY SHOULD BE HIGHER THAN NORMAL THROUGHOUT THIS PERIOD
WITH PEAK ACTIVITY LIKELY TO BEGIN ABOUT 18 NOVEMBER.

D. DAILY FORECAST FOR NOVEMBER 9-11 AND EXPECTED MEAN FORECAST
FOR NOVEMBER 12-15, 1968 CLN

DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

IMPORTANCE TWO OR GREATER 5-7-10 /7/
IMPORTANCE THREE OR GREATER 1-2-3 /2/
PROTON EVENTS 2-4-5 /4/
OTTAWA 10.7 CM FLUX TODAY IS UNKNOWN. PREDICTED 136-140-142 /140/.
BT

NNNNUUU

PP KGFF

DE BOU 082315Z

HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 074B ISSUED 2300Z 08 NOVEMBER 1968

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS

A. THE REGION AT N20E36 HAS CONTINUED TO DEVELOP TODAY. THE OTHER REGIONS HAVE NOT SHOWN SIGNIFICANT DEVELOPMENT.

B. THE N20E36 REGION MAY BECOME A SOURCE OF MAJOR FLARES IN 24-36 HOURS.

FORECASTS FOR 09-11 NOVEMBER

C. DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

IMPORTANCE TWO OR GREATER 10/25/30

IMPORTANCE THREE OR GREATER 1/2/4

PROTON EVENTS 2/4/5

D. UNCHANGED FROM SDF 074A.

E. MAGNETIC A-FREDERICKSBURG FOR 07 NOV WAS 09. FOR 08 NOV ABOUT 06. PREDICTED FOR 09-11 NOV ALL UNDER 10.

SOLTERWARN

BT