

NNNUUV

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

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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