

NNNNVV  
PP KGFF  
DE BOU 011810Z  
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 067A ISSUED 1700Z NOVEMBER 01 1968

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.

A. HIGHLIGHTS FOR THE PERIOD OCTOBER 24-31, 1968 CLN THIS HAS BEEN ONE OF THE MOST ACTIVE WEEKS IN THE CURRENT SOLAR CYCLE. A LARGE REGION NOW NEAR S14W53 INCREASED IN AREA AND MAGNETIC COMPLEXITY AND PRODUCED SEVERAL VERY MAJOR FLARES WITH LARGE RADIO BURSTS. THESE RESULTED IN POLAR CAP ABSORPTION FROM ENERGETIC PARTICLES AND A SERIES OF LARGE MAGNETIC STORMS. EVENTS BEGINNING 27/1231Z AND 29/1218Z BOTH WERE LESS THAN IMPORTANCE 2 OPTICALLY BUT BOTH PRODUCED MAJOR RADIO BURSTS AND MODERATE TO STRONG X-RAY EMISSION. THE FIRST EVENT RESULTED IN A FORBUSH DECREASE BEGINNING 29/0840Z AND A SUDDEN COMMENCEMENT OF MAGNETIC STORM 29/0909Z WHICH REACHED SEVERE PROPORTIONS BY 29/1500Z AND ENDED 29/2200Z. THE SECOND EVENT WAS A SERIES OF 1N FLARES SCATTERED ABOUT THE LARGE REGION AND OVERLAPPING IN TIME AND ALL EXHIBITED SLOW RISES TO MAXIMUM. A LARGE RADIO NOISE STORM WAS COMMENCED BY THE EVENT ON 30/2343Z WITH CENTIMETRIC FLARE BURSTS PEAKING IN EXCESS OF 2000 FLUX UNITS. A GREAT MAGNETIC STORM COMMENCED 31/0200Z, REACHED VERY SEVERE LEVEL BY 1400Z, AND BECAME QUIET BY 2100Z. THIS STORM WAS ORIGINATED BY THE EVENTS OF THE 29TH ALTHOUGH THE 3B/4B FLARE MAY HAVE CONTRIBUTED TO IT. A POLAR CAP ABSORPTION BEGAN 31/1300Z REACHING 3.9DB ABSORPTION ON THULE 30MHZ RIOMETER, ALTHOUGH SOME EVIDENCE SUGGESTS A START TIME OF ABOUT 0500Z. THIS WAS ASSOCIATED WITH PROTON FLUX INCREASES BY SATELLITES. THREE MAJOR FLARES HAVE BEEN OBSERVED IN THE LAST 24 HOURS. AN IMPORTANCE 2B COMMENCING 31/2234Z AT S13W48 PRODUCED PROTONS WHICH WERE OBSERVED BY EARTH ORBITING SATELLITES WITH APPROXIMATELY 13 HOURS DELAY. ANOTHER 2N COMMENCED 01/0806Z AT S18W48. PROTONS ANTICIPATED FROM THIS EVENT. A SUBFLARE OF NORMAL BRIGHTNESS BEGINNING 01/1207Z AT S15W52 PRODUCED MAJOR CENTIMETRIC EMISSION, AS DID THE PREVIOUSLY MENTIONED TWO EVENTS.

B. FORECAST FOR THE WEEK NOVEMBER 1-8, 1968 CLN THE REGION AT S14W53 HAS EXHIBITED GROWTH AND LARGE SUNSPOT MOTIONS DURING THE PAST 12 HOURS AND APPEARS AT A MOST EXTREME ACTIVE LEVEL TODAY. A VERY HIGH LEVEL OF FLARE ACTIVITY IS EXPECTED THROUGH NOV. 4, WHEN THIS REGION REACHES WEST LIMB. NOV. 5-7 SHOULD THEN BE QUIET. A REGION DUE TO RETURN ON NOV. 8 AT N28 WAS PRODUCING CONSIDERABLE FLARE/SURGE ACTIVITY AT ITS WEST LIMB PASSAGE ON OCT. 25.

C. 28-DAY FORECAST FOR NOVEMBER 1-29, 1968 CLN SOLAR ACTIVITY SHOULD BE HIGHER THAN NORMAL.

D. DAILY FORECAST FOR NOVEMBER 2-4 AND EXPECTED MEAN FORECAST FOR NOVEMBER 5-9, 1968 CLN

DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

IMPORTANCE TWO OR GREATER 100/100/100 /30/

IMPORTANCE THREE OR GREATER 70/70/70 /10/

PROTON EVENTS 70/70/70 /10/

OTTAWA 10.7 CM FLUX TODAY IS 160. PREDICTED 160/160/160 /140/.

BT

NNNW

NNNNVV  
PP KGFF  
DE BOU 012355Z  
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 067B ISSUED 2300Z NOV 1 1968

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

A. AN IMPORTANCE 1N TO 1B FLARE BEGINNING AT 2003UT IN THE LARGE REGION AT S10W50 PRODUCED MODERATE CENTIMETRIC AND DEKAMETRIC RADIO BURSTS AND VERY HIGH X-RAY LEVELS. THIS FLARE, THOUGH SMALL, MAY BE ANOTHER PROTON FLARE. A DEKAMETRIC EVENT, GIVING THE APPEARANCE OF TYPE II AT 1700Z, FOLLOWED BY CONTINUUM AT 1705Z, DOES NOT APPEAR CORRELATED WITH ANY OPTICAL EVENT. THIS REGION HAS BEEN VERY ACTIVE ALL DAY AND CONTINUES TO EMIT A HIGH LEVEL OF RADIO NOISE.

B. THE SW REGION APPEARS READY TO PRODUCE ANOTHER MAJOR FLARE.

SECTIONS C AND D REMAIN UNCHANGED FROM SDF 067A.

E. MAGNETIC A-FREDERICKSBURG FOR OCT 31 WAS 73. FOR NOV 1 ABOUT 65. PREDICTED AP FOR NOV 2-4 ALL GREATER THAN 50.

BT