

NNNNVV
PP KGFF
DE BOU 271715Z
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 032A ISSUED 1700Z SEPTEMBER 27 1968

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

A. HIGHLIGHTS FOR THE PERIOD SEPTEMBER 19-27, 1968 CLN DURING THE PAST 4 DAYS THE BASE LEVEL OF SOLAR ACTIVITY INCREASED. SUPERPOSED ON THIS RISE IN BACKGROUND, WERE A HANDFUL OF IMPORTANCE ONE FLARES. THE MOST SIGNIFICANT FLARE IN THIS SERIES WAS AN IMPORTANCE 1B EVENT OCCURRING AT 26/0022 UT FROM WITHIN A THEN UNIMPRESSIVE SPOT GROUP NOW NEAR N12E18. UNUSUALLY INTENSE CM-WAVELENGTH RADIO NOISE BURSTS AND IONOSPHERIC EFFECTS ACCOMPANIED THE FLARE. IN ADDITION, A LARGE ENHANCEMENT IN SOLAR COSMIC RAYS WITH ENERGIES BRACKETING 1 MEV WAS DETECTED BY THE PIONEER 7 SPACECRAFT LATE ON THE 26TH.

B. FORECAST FOR THE WEEK SEPTEMBER 28-OCTOBER 4, 1968 CLN NO LARGE COMPLEX REGIONS ARE DUE TO RETURN DURING THE WEEK. BASED UPON ITS CURVE OF GROWTH, THE PECULIARLY STRUCTURED SPOT GROUP NOW CENTERED NEAR N12E18 IS EXPECTED TO PRODUCE ANOTHER IMPORTANCE 1B OR POSSIBLE TWO FLARE DURING THE NEXT 12 HOURS OR ONE TO TWO DAYS BEFORE WEST-LIMB PASSAGE. WHITE LIGHT CONFIGURATIONS OF THOSE REMAINING VISIBLE REGIONS IMPLY THAT MAJOR OPTICAL EVENTS FROM WITHIN ANY OF THEM WOULD BE ONLY REMOTELY POSSIBLE. THE RECENT FLARE ACTIVITY IS EXPECTED TO BE REFLECTED IN THE PLANETARY MAGNETIC A-INDEX AS THE GEOMETRY OF THE N12E18 REGION AND SUN-EARTH LINE BECOME INCREASINGLY MORE FAVORABLE. THE PROPOSED MAGNETIC DISTURBANCE SHOULD BORDER ON A STORM IN MAGNITUDE DURING OCT. 1.

C. 28 DAY FORECAST FOR SEPTEMBER 28-OCTOBER 25, 1968 CLN THE SHARP RISE IN SOLAR ACTIVITY DURING THE PAST 4 DAYS IS EXPECTED TO BE SHORT-LIVED WITH THE AVERAGE R-NUMBER FOR OCT. COMPARABLE TO THAT OF MARCH OF THIS YEAR /R APPROX. 80/. CONTRARY TO THE SPOT COUNT, THE 10 CM FLUX SHOULD REMAIN ENHANCED DURING THIS PERIOD.

D. DAILY FORECAST FOR SEPTEMBER 28-30 AND EXPECTED MEAN FORECAST FOR OCTOBER 01-04, 1968 CLN

DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

IMPORTANCE TWO OR GREATER 10-5-5 /2/

IMPORTANCE THREE OR GREATER 2-2-1 /1/

PROTON EVENTS 2-1-1 /1/

OTTAWA 10.7 CM FLUX TODAY IS 157. PREDICTED 155-154-152 /145/.

BT

NNNNVV
PP KGFF
DE BOU 272300Z
HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 032B ISSUED 2300Z 27 SEPTEMBER 1968

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS

A. AN IMPORTANCE 1N FLARE WAS REPORTED TODAY AT S18E42 AT ABOUT 2120 UT. THE FLARE WAS ACCOMPANIED BY CHROMOSPHERIC EJECTION AND PRODUCED ALMOST NO RADIO OR IONOSPHERIC EFFECTS. THE MAJOR REGIONS ON THE DISK CMMA WHILE PRODUCING NUMEROUS SUBFLARES CMMA HAVE REMAINED ESSENTIALLY UNCHANGED TODAY.

B. THE LEVEL OF SOLAR ACTIVITY IS EXPECTED TO REMAIN NEARLY CONSTANT DURING THE NEXT 12 HOURS.

FORECASTS FOR 28-30 SEP

C. DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 10/10/10

IMPORTANCE THREE OR GREATER 2/2/1

PROTON EVENTS 2/2/1

D. OTTAWA 10.7 CM FLUX TODAY 157. PREDICTED 155/154/152.

E. MAGNETIC A-FREDERICKSBURG FOR 26 SEP WAS 02. FOR 27 SEP ABOUT 02. PREDICTED 15/15/15.

SOLTERWARN

BT