

NNNNUUUV  
PP KGFF  
DE ROU 291730Z  
HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 276A ISSUED 1700Z 29 MAY 1969

CLASS M FLARES ARE EXPECTED IN THE NEXT 6 HOURS

A. HIGHLIGHTS FOR THE PERIOD 22-29/1600Z MAY 1969 CLN  
THE PERIOD WAS MARKED BY THE OCCURRENCE OF RELATIVELY  
INFREQUENT AND, WITH ONE EXCEPTION, SMALL CLASS M EVENTS  
DESPITE THE PRESENCE OF REGIONS WHICH APPEARED TO HAVE  
MAJOR FLARE POTENTIAL. THE ONE EXCEPTION WAS A VERY LARGE  
CLASS M EVENT AT 22/1914Z FROM THE REGION NOW NEAR N09W61  
/L316/. EARLY IN THE PERIOD THIS REGION, WHICH WAS MAGNETICALLY  
BETA-GAMMA, APPEARED TO HAVE MAJOR FLARE POTENTIAL. HOWEVER,  
IT BEGAN TO DECAY AND SIMPLIFY ON 24 MAY AND REMAINED RELATIVELY  
INACTIVE UNTIL 25 MAY WHEN IT PRODUCED TWO SMALL CLASS M EVENTS  
AT 25/1143Z AND 25/2049Z. IT BECAME PARTIALLY REJUVENATED ON  
28 MAY WITH THE OUTBREAK OF NEW SPOTS AND PRODUCED A MEDIUM  
SIZED CLASS M EVENT AT 28/1254Z. THIS EVENT APPEARED TO PRODUCE  
AN INCREASE IN LOW ENERGY PROTON FLUXES AT SATELLITE HEIGHTS.  
TODAY, THIS REGION HAS PRODUCED THREE FLARES OF NOTE, BEGINNING  
29/0019Z, 29/0407Z AND 29/1441Z. THE FIRST IS A CLASS M EVENT  
/1N/, THE SECOND IS POSSIBLY CLASS X /2N/, AND THE THIRD IS  
ALSO A CLASS M EVENT /1B/. THE FIRST TWO EVENTS WERE ASSOCIATED  
WITH DEKAMETRIC RADIO TYPE II/TYPE IV SEQUENCES, WHILE THE LAST  
EVENT HAD ONLY A TYPE II IN ASSOCIATION. CORONAL TIES BETWEEN  
THIS REGION AND THE SOUTHWEST REGION TO BE DESCRIBED SUB-  
SEQUENTLY WERE OBSERVED FOLLOWING THIS LAST FLARE. THE MOST  
IMPRESSIVE REGION WAS THE ONE NOW COMMENCING WEST LIMB PASSAGE  
NEAR S22/L340/. THIS REGION WAS BORN ON THE VISIBLE DISK ON  
20 MAY, SHOWED RAPID AND DYNAMIC DEVELOPMENT ON 22 AND 23 MAY,  
AND WAS MAGNETICALLY COMPLEX BY 25-26 MAY. HOWEVER, IT PRODUCED  
ONLY THREE SMALL CLASS M EVENTS AT 24/1031Z, 25/2007Z, AND  
26/1107Z. BOTH OF THE ABOVE REGIONS LIE OUTSIDE THE ACTIVE-  
LONGITUDE BELTS /CENTERED AROUND L060 AND L270/ WHICH HAVE  
PRODUCED MOST OF THE SIGNIFICANT ACTIVITY THE PAST FIVE MONTHS.  
A SMALL REGION CURRENTLY NEAR N07E46 /L209/ PRODUCED A SMALL  
M EVENT AS IT WAS BEGINNING EAST LIMB PASSAGE AT 25/1656Z, AND  
A REGION NOW NEAR N13W29 /L284/ PRODUCED M EVENTS AT 27/0055Z  
AND 28/1443Z. THE GEOMAGNETIC FIELD WAS RELATIVELY QUIET AT  
LOWER LATITUDES THROUGHOUT THE PERIOD.

B. FORECAST FOR THE WEEK 30 MAY -06 JUNE 1969 CLN  
SOLAR ACTIVITY IS EXPECTED TO BE ENHANCED UNTIL THE N09/L316/  
REGION COMPLETES WEST LIMB TRANSIT. SOME ACTIVITY MAY STILL BE  
EXPECTED DURING THE SUCCEEDING THREE DAYS UNTIL THE N13/L284/  
REGION PASSES BEYOND THE LIMB. AT THE END OF THE PERIOD A SHARP  
INCREASE IN ACTIVITY WITH THE APPROACH OF THE N15/L070/  
COMPLEX TO EAST LIMB, IS EXPECTED.

28-DAY FORECAST FOR 30 MAY-27 JUNE 1969 CLN  
SOLAR ACTIVITY IS EXPECTED TO BE ENHANCED FROM 05 JUNE THROUGHOUT  
REPORT PERIOD. RETURN OF REGIONS CURRENTLY PASSING OVER WEST  
LIMB IS EXPECTED TO BE ACTIVE, AS SHOULD THE L070 COMPLEX.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 29/1700Z ENDING 01/1700Z.

CLASS M OR GREATER 90/80/70  
CLASS X 30/30/20

PROTON EVENTS 20/20/10

D. OTTAWA 10.7 CM FLUX TODAY IS 119. PREDICTED 125/125/125.

E. N/A.

F. KP ESTIMATED FOR 1200-1500Z IS 2. KP FORECAST FOR NEXT 24  
HOURS PER KP 15.3; 2/2/2/2/2/2/2/2.

SOLTERWARN

BT

NNNNUUU  
PP KGFF  
DF BOU 292335Z  
HERE IS THE MSG FOR PFFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 276B ISSUED 2300Z MAY 29 1969

CLASS M FLARES ARE EXPECTED IN THE NEXT 18 HOURS

A. A LARGE CLASS M EVENT, WHICH WAS POORLY OBSERVED OPTICALLY  
DUE TO CLOUDS AT MOST OBSERVATORIES, BEGAN 29/1939Z. OPTICALLY  
IB, AND WITH A CENTIMETRIC NOISE BURST PEAKING AT THE HIGHEST  
FREQUENCY OBSERVED, STRONG IONOSPHERIC EFFECTS WERE OBSERVED  
FROM THE X-RAY BURST THIS FLARE, LIKE THE OTHERS TODAY MENTIONED  
IN SDF 276A, ORIGINATED IN THE NORTHERN PORTION OF THE N09W78  
REGION. THE REGION IS DESCRIBED AS MAGNETICALLY SIMPLE, ALTHOUGH  
LIMP PROXIMITY IS HAMPERING OBSERVATION. HIGH ENERGY PROTON FLUKES  
ARE SLIGHTLY ENHANCED AT SATELLITE HEIGHTS THE GEOMAGNETIC FIELD  
IS RELATIVELY QUIET, EXCEPT FOR A BAY BEGINNING 29/2010Z.

B. FURTHER ENERGETIC FLARES ARE EXPECTED FROM N09W78 AND S22W90  
REGIONS.

PARTS C AND D UNCHANGED FROM SDF 276A

E. MAGNETIC A-FREDERICKSBURG FOR 28 MAY WAS09. FOR 29 MAY ABOUT 12  
PREDICTED AP FOR 30 MAY-1 JUNE, 20/10/10.

SOLTERWARN  
BT