

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 415A ISSUED 1700Z 15 OCTOBER 1969

ONLY CLASS C FLARES ARE EXPECTED DURING THE NEXT 6 HOURS

A. HIGHLIGHTS FOR THE PERIOD 8-14 OCTOBER 1969--

SOLAR ACTIVITY WAS CLEARLY DOMINATED DURING THIS PERIOD BY
MCMATH REGION 351 WHICH PRODUCED SIX CLASS M FLARES BEFORE
COMPLETING WEST LIMB PASSAGE 12 OCTOBER. START TIMES AND OPTICAL
IMPORTANCES WERE AS FOLLOWS-- 08/0727 /SN/, 08/1629 /SB/,
09/0429 /SB/, 09/2102 /IN/, 10/2032 /SN/, AND 11/2326 /SN/.
THE 08/1629 FLARE WAS ACCOMPANIED BY AN UNUSUALLY STRONG METER-
WAVELENGTH BURST AND A FLAT, WEAK RESPONSE AT CM WAVELENGTHS.
THE REGION ITSELF WAS BORN ON THE DISK OCTOBER 2 NEAR N18E45
AND TOOK ON A MAJOR FLARE-PRODUCING CONFIGURATION FOUR DAYS
LATER. BY THE TIME IT HAD REACHED THE WEST LIMB, A SMALL DELTA
HAD FORMED IN THE TRAILING PORTION; THE ACTUAL PASSAGE OVER
THE LIMB WAS ACCOMPANIED BY CORONAL RAIN AND IMPORTANCE TWO LOOPS
AND SURGES. FOLLOWING THE DISAPPEARANCE OF REGION 351, ATTENTION
SHIFTED TO THE DEVELOPING GROUP NOW LOCATED NEAR S06W34 /MCMATH
361/. RECENT OBSERVATIONS THERE INDICATE STRUCTURAL CHANGES
IN WHITE LIGHT AND A BRIGHT HYDROGEN PLAGE. A MINOR GEOMAGNETIC
DISTURBANCE BEGAN 09/1639Z WITH A SMALL BUT WELL DEFINED SC ON
THE D TRACE. THE FLUCTUATIONS LASTED APPROXIMATELY 48 HOURS.

B. FORECAST FOR THE PERIOD 16-22 OCTOBER 1969--

THE FREQUENCY AND INTENSITY OF FLARES ARE EXPECTED TO REMAIN
LOW DURING THE COMING WEEK. MOST OF THESE LOW-ENERGY EVENTS
SHOULD ORIGINATE FROM WITHIN MCMATH REGION 361. AFTER THE PASSAGE
OF 361 OVER THE LIMB, THE R-NUMBER IS EXPECTED TO DECLINE SHARPLY.
THIS LULL IN TURN WILL BE FOLLOWED BY A RISE IN GEOMAGNETIC
ACTIVITY.

28-DAY FORECAST FOR 16 OCTOBER-12 NOVEMBER 1969--

AN INCREASE IN THE LEVEL OF ACTIVITY IS EXPECTED TO BEGIN ABOUT
10 NOVEMBER.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 15/1700Z ENDING 18/1700Z.

CLASS M OR GREATER 25/30/30

CLASS X 02/02/02

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 122. PREDICTED 120/118/118.

E. N/A.

F. KP ESTIMATED FOR 1200-1500Z WAS 3. KP FORECAST FOR NEXT 24
HOURS PER KP 15.3; 3/3/3/3/2/2/2/2.

SOLTERWARN

BT

NNNNBM
KMSC
PP KGFF
DE BOU 152300Z
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 415B ISSUED 2300Z 15 OCT 1969
ONLY CLASS C FLARES ARE EXPECTED DURING THE NEXT 18 HOURS.
A. SOLAR ACTIVITY REMAINS AT A VERY LOW LEVEL WITH VERY
LITTLE CHANGE IN ANY OF THE SMALL REGIONS. THE GEOMAGNETIC
FIELD IS CURRENTLY SLIGHTLY DISTURBED.
PARTS B & C REMAIN UNCHANGED FROM SDF 415A.
D. OTTAWA 10.7 CM FLUX AT 1700Z WAS 113.
E. MAGNETIC A-FREDERICKSBURG FOR 14 OCT WAS 02. FOR 15 OCT
ABOUT 03 PREDICTED AP FOR 16-18 OCT 12/15/15.
SOLTERWARN
BT