

HFUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 124

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 04 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
03/2100Z TO 04/2100Z:

SOLAR ACTIVITY HAS BEEN LOW. THE EMERGENCE OF A BRIGHT PLAGE  
WITH SMALL SPOT GROUP AT THE TIP OF A LARGE FILAMENT HAS BEEN  
THE MOST SIGNIFICANT CHANGE DURING THE PAST 24 HOURS. THIS  
REGION IS NUMBERED 4168 (S13E22) AND SEEMS PIZARRE BECAUSE OF  
ITS BRIGHTNESS AND THE FACT THAT THE FILAMENT APPEARS TO  
EMPTY INTO ITS CENTER. NO FLARES FROM 4168 AS YET BUT FILAMENT  
ACTIVATION AND DISAPPEARANCE MAY BE IMMINENT. WITH REGIONS  
4157 (S03W66) AND 4162 (S14W76) NEARING WEST LIMB PASSAGE, REGION  
4165 (S09E03) MAY BE THE REGION OF SIGNIFICANCE FOR THE NEXT  
SEVERAL DAYS. A SMALL BIPOLAR GROUP ROTATED OVER THE DISK NEAR  
SE15 AND IS IDENTIFIED AS 4169.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z  
THE GEOMAGNETIC FIELD WENT INTO DISTURBED CONDITIONS AFTER  
040300Z AND HAS BEEN DISTURBED SINCE.

IIB. GEOPHYSICAL ACTIVITY FORECAST

THIS CORONAL HOLE PRECIPITATED DISTURBANCE IS EXPECTED TO  
PERSIST FOR THE NEXT 72 HOURS OR MORE.

III. EVENT PROBABILITIES: 05 MAY - 07 MAY

CLASS M 50/40/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 04 MAY 131

PREDICTED 05 - 07 MAY 126/118/111

90 DAY MEAN 04 MAY 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 MAY 15/10

ESTIMATED AFR/AP 04 MAY 30/30

PREDICTED AFR/AP 05-07 MAY 28/30 25/30 18/30

SOLTERWARN

BT