

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 4 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 BIZARRE 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
SE 15 AND IS IDENTIFIED AS 4169.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z
THE GEOMAGNETIC FIELD WENT INTO DISTURBED CONDITIONS AFTER
~0300Z 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