

HFUS3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 290

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 16 OCT 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100
TO 16/2100Z: ALTHOUGH SOLAR ACTIVITY HAS BEEN VERY LOW, REGION
4586 (N05E39) CONTINUES TO SHOW SIGNIFICANT GROWTH. THE SPOT
GROUP HAS DOUBLED IN AREA AND SPOT NUMBER SINCE THIS TIME
YESTERDAY. THIS REGION PRODUCED A NORMAL INTENSITY OPTICAL
SUBFLARE AND ASSOCIATED B9 LEVEL X-RAY EVENT AT APPROXIMATELY
0036UT. IT ALSO PRODUCED A LESS IMPRESSIVE OPTICAL SUBFLARE AT
ABOUT 0257UT. THIS SPOT GROUP IS A D-TYPE GROUP, AND IS
MAGNETICALLY CLASSIFIED AS A SIMPLE BETA.

IB. SOLAR ACTIVITY FORECAST: EVEN THOUGH SOLAR ACTIVITY IS
EXPECTED TO REMAIN VERY LOW, ANALYSIS OF DYNAMICS IN REGION
4586 SHOWS THAT THIS REGION STILL HAS THE CAPABILITY OF
POSSIBLY PRODUCING A SIGNIFICANT EVENT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH ISOLATED PERIODS AT
MINOR STORM LEVELS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE ACTIVE FOR THE NEXT THREE DAYS WITH SUBFORMING
POSSIBLE IN THE NIGHTTIME SECTOR.

III. EVENT PROBABILITIES 17 OCT-19 OCT

CLASS M 02/02/02

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 OCT 077

PREDICTED 17 OCT-19 OCT 079/080/081

90 DAY MEAN 16 OCT 080

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 OCT 012/013

ESTIMATED AFR/AP 16 OCT 020/025

PREDICTED AFR/AP 17 OCT-19 OCT 019/025-015/020-019/025

SOLTERWARN

BT