

HFUS 3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 042

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 11 FEB 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100
TO 11/2100Z: SOLAR ACTIVITY WAS MODERATE AGAIN THIS PERIOD. THE
LARGEST EVENT WAS A M2/2B FROM REGION 4413 (S13E04) WITH XRAY
MAXIMUM TIME AT 0245Z. THIS REGION REMAINS THE MOST IMPRESSIVE
REGION ON THE DISK WITH AN AREA OF 780 MILLIONTHS IN WHITE
LIGHT, AND A BETA-GAMMA-DELTA MAGNETIC CONFIGURATION. REGION
4408 (S12W74) GREW CONSIDERABLY IN WHITE LIGHT SINCE YESTERDAY
REACHING 410 MILLIONTHS. THE LATEST REPORTS INDICATE THAT IT
NOW HAS A BETA-GAMMA MAGNETIC CONFIGURATION. REGION 4410
(S11W31) IS ANOTHER IMPRESSIVE REGION. ALTHOUGH IT IS ONLY HAS
A BETA MAGNETIC CONFIGURATION IT IS A LARGE (530 MILLIONTHS IN
WHITE LIGHT) EKO GROUP. NUMEROUS XRAY CLASS C FLARES ALSO
OCCURRED. ALL OF THESE THAT WERE OPTICALLY CORRELATED CAME
FROM ONE OF THESE REGIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO MODERATE FOR THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z:
THE GEOMAGNETIC FIELD BEGAN THE PERIOD AT MINOR STORM LEVELS
AND INCREASED TO MAJOR STORM LEVELS FOR A SHORT PERIOD PRIOR TO
0300Z. SINCE THEN THE FIELD HAS BEEN UNSETTLED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE ACTIVE THROUGH THE FORECAST PERIOD. BRIEF
PERIODS AT MINOR STORM LEVELS ARE EXPECTED DURING THE FIRST
DAY.

III. EVENT PROBABILITIES 12 FEB-14 FEB

CLASS M 40/40/40

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 FEB 147

PREDICTED 12 FEB-14 FEB 148/148/145

90 DAY MEAN 11 FEB 105

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 FEB 011/018

ESTIMATED AFR/AP 11 FEB 020/020

PREDICTED AFR/AP 12 FEB-14 FEB 016/020-015/015-015/015

SOLTERWARN

BT