

HFUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 040

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 09 FEB 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/2100
TO 09/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. EVENTS
HAVE BEEN LIMITED TO OPTICAL SUBFLARES AND C LEVEL X-RAY
FLARES. REGIONS 4408 (S13W46), 4410 (S11W05) AND 4414 (S09E17)
HAVE REMAINED STABLE. REGION 4411 (N09W12) HAS BEGUN TO DECAY
AND IS NOW A C TYPE SPOT GROUP. REGION 4413 (S13E31) HAS GROWN
RAPIDLY (NEARLY DOUBLING IN AREA) AND NOW HAS A BETA GAMMA
DELTA MAGNETIC CONFIGURATION. ONE NEW REGION WAS NUMBERED THIS
PERIOD, 4416 (S15W15), A B TYPE SPOT GROUP. THE REST OF THE
DISK APPEARS QUITE AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO
MODERATE THROUGHOUT THE FORECAST PERIOD. ANY MODERATE LEVEL
ACTIVITY WOULD MOST LIKELY ORIGINATE IN REGION 4413.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 08/2100Z TO 09/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN QUITE AT MIDLATITUDES AND
UNSETTLED AT HIGH LATITUDES THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD
SHOULD BE QUIET TO UNSETTLED AT MIDLATITUDES AND UNSETTLED TO
ACTIVE AT HIGH LATITUDES THE FIRST TWO DAYS OF THE FORECAST
PERIOD. ACTIVE CONDITIONS SHOULD BE PREDOMINANT THE LAST DAY OF
THE FORECAST PERIOD.

III. EVENT PROBABILITIES 10 FEB-12 FEB

CLASS M 40/40/40

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 FEB 144

PREDICTED 10 FEB-12 FEB 146/148/151

90 DAY MEAN 09 FEB 104

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 FEB 006/009

ESTIMATED AFR/AP 09 FEB 006/010

PREDICTED AFR/AP 10 FEB-12 FEB 005/015-005/020-016/020

SOLTERWARN

BT