

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 A₁ 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