

HFUS 3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 043

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 FEB 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100 TO 12/2100Z: SOLAR ACTIVITY HAS AGAIN BEEN MODERATE DURING THE PAST 24 HOURS. THE LARGEST EVENT WAS A M1/1B AT 1506UT FROM REGION 4413 (S13W09), ONLY MINOR RADIO WAS OBSERVED WITH THIS EVENT. REGION 4408 (S12W85) ALSO PRODUCED A M1/SN EVENT AT 2210UT ON 11 FEB, AGAIN ONLY MINOR RADIO WAS OBSERVED. REGIONS 4413 AND 4408 HAVE EXHIBITED MINOR AREA DECAY DURING THIS PERIOD WHILE REGION 4410 (S10W43) HAS SHOWN RAPID DECAY IN AREA THIS PERIOD. REGION 4413 HAS MAINTAINED A DELTA MAGNETIC CONFIGURATION HOWEVER THERE HAS BEEN SOME RELAXATION OF THE GRADIENT IN THE COMPLEX TRAILER PORTION OF THE REGION. ONE NEW REGION NUMBERED TODAY 4418 (S04E75) A SIMPLE B TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT OR NEAR MODERATE LEVELS DURING THIS FORECAST PERIOD. REGION 4413, IF RAPID CHANGE OCCURS, HAS THE BEST CHANCE FOR LARGE M CLASS EVENTS WITH A SMALL CHANCE OF AN ISOLATED X EVENT DURING THE NEXT 36 HOURS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED TO SLIGHTLY ACTIVE DURING THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPCTED TO BE NEAR ACTIVE LEVELS DURING THE FIRST 48 HOURS OF THE FORECAST THEN UNSETTLED FOR THE LAST 24 HOURS.

III. EVENT PROBABILITIES 13 FEB-15 FEB

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 FEB 141

PREDICTED 13 FEB-15 FEB 140/139/131

90 DAY MEAN 12 FEB 106

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 FEB 018/021

ESTIMATED AFR/AP 12 FEB 012/010

PREDICTED AFR/AP 13 FEB-15 FEB 015/015-015/015-012/015

SOLTERWARN

BT