

HFUS3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 036

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 05 FEB 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100  
TO 05/2100Z: SOLAR ACTIVITY IS AT A VERY LOW LEVEL. REGION 4623  
(S07E57) DEVELOPED SPOTS EARLY IN THE DAY AND HAS PRODUCED  
SEVERAL SMALL (LESS THAN C CLASS) FLARES. MINOR FILAMENT  
ACTIVITY WAS REPORTED DURING THE EARLY DEVELOPMENT OF THIS  
REGION. REGION 4623 EMERGED IN THE AREA OF OLD REGION 4616  
(S07 L133) AND IS CURRENTLY A BETA TYPE SPOT GROUP. REGION  
4617 (S10 L073), THE PRODUCER OF THE X4.7 FLARE AND PROTON  
EVENT OF LAST MONTH, IS DUE BACK ON THE EAST LIMB LATE ON 8  
FEB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN AT A VERY LOW LEVEL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z:  
THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS.  
THE FIELD WAS QUIET EARLY IN THE PERIOD, BUT REACHED ACTIVE  
LEVELS BY 0600UT. A SUDDEN STORM COMMENCEMENT WAS REPORTED AT  
05/0347UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
EXPECTED TO REMAIN AT ACTIVE LEVELS THROUGH MOST OF THE PERIOD.  
MINOR STORM LEVEL CONDITIONS ARE POSSIBLE DURING NIGHT TIME  
HOURS.

III. EVENT PROBABILITIES 06 FEB-08 FEB

CLASS M 01/01/01  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 FEB 073  
PREDICTED 06 FEB-08 FEB 072/071/071  
90 DAY MEAN 05 FEB 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 FEB 002/007  
ESTIMATED AFR/AP 05 FEB 020/020  
PREDICTED AFR/AP 06 FEB-08 FEB 025/025-020/020-015/020

SOLTERWARN

BT