

HFUS3 BOU 212200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 172  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 21 JUN 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100  
TO 21/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24  
HOURS. REGION 4657(N10W47), A BXO TYPE SPOT GROUP WITH A BETA  
MAGNETIC CLASSIFICATION, WAS THE ONLY SPOTTED REGION ON THE  
DISK. QUIESCENT PROMINENCES WERE OBSERVED AT S12W90 AND  
S21E90, AND AN ACTIVE PROMINENCE AT S09E90. NO REGIONS ON THE  
DISK PRODUCED ANY SIGNIFICANT ACTIVITY. NO NEW REGIONS WERE  
ASSIGNED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
VERY LOW FOR THE NEXT 72 HOURS. NO REGIONS ON THE DISK ARE  
EXPECTED TO PRODUCE ANY SIGNIFICANT ACTIVITY. NO REGIONS ARE  
DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z:  
THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE FOR THE PAST  
24 HOURS. A GRADUAL STORM COMMENCEMENT AND A SUDDEN STORM  
COMMENCEMENT WERE REPORTED BY MEUDON, FRANCE AT 20/1153UT AND  
20/1553 RESPECTIVELY. A SUDDEN IMPULSE WAS OBSERVED AT MIDDLE  
LATITUDE STATIONS NEAR 20/1600UT. ACTIVITY REACHED ACTIVE  
LEVELS AT ALL LATITUDES BEFORE GRADUALLY SUBSIDING AFTER  
21/0000UT. UNSETTLED CONDITIONS HAVE PREVAILED SINCE. THE  
SOURCE OF THIS DISTURBANCE CANNOT BE DETERMINED WITH CERTAINTY  
AT THIS TIME.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
EXPECTED TO BE UNSETTLED TO SLIGHTLY ACTIVE FOR THE NEXT 24  
HOURS. UNSETTLED CONDITIONS ARE THEN EXPECTED FOR THE  
SUBSEQUENT 24 HOURS. QUIET TO UNSETTLED LEVELS ARE THEN  
EXPECTED FOR THE LAST 24 HOURS OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 22 JUN-24 JUN

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

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 JUN 069  
PREDICTED 22 JUN-24 JUN 069/069/068  
90 DAY MEAN 21 JUN 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 JUN 013/014  
ESTIMATED AFR/AP 21 JUN 011/015  
PREDICTED A-R/AP 22 JUN-24 JUN 008/015-008/010-005/010  
SOLTERWARN  
BT