

HFUS3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 349

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 15 DEC 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4708 (N03W03) HAS SUSTAINED GROWTH IN ALL PARAMETERS DURING THE PERIOD AND IS NOW A DRO TYPE SPOT GROUP WITH A BETA MAGNETIC CLASSIFICATION. REGION 4708 CONTINUES TO PRODUCE MINOR FLARES WITH A NOTICABLE INCREASE IN FREQUENCY. THE REGION HAS LOST ITS LEADER SPOTS AND HAS DEVELOPED A NEW SET OF TRAILER SPOTS. THE RESULT IS A POLARITY IN THE LEADER THAT IS COMPATIBLE WITH MOST OTHER SPOT GROUPS SEEN IN NORTHERN HEMISPHERE IN CYCLE 21. REGION 4709 (S08E19) HAS GROWN AND IS NOW A DRO TYPE SPOT GROUP. SEVERAL FILAMENTS HAVE DISAPPEARED THIS PERIOD AT S11W43 (5 DEGREES), S23E14 (10 DEGRESS), N20E18 (9 DEGREES), AND S12E21 (12 DEGREES). NO NEW REGIONS WERE NUMBERED TODAY. THE REST OF THE DISK AND LIMBS WERE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. NO REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: GEOMAGNETIC ACTIVITY HAS BEEN ACTIVE TO UNSETTLED EARLY IN THE PERIOD AND QUIET LATER IN THE PERIOD. THE QUIET CONDITIONS PREVAILED AFTER 0900 UT 15 DECEMBER.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE ACTIVE FOR THE NEXT 48 HOURS AND UNSETTLED TO ACTIVE FOR THE SUBSEQUENT 24 HOURS. ACTIVITY LEVELS ARE EXPECTED TO INCREASE IN RESPONSE TO THE EFFECTS OF DISAPPEARING FILAMENTS 12-13 DECEMBER.

III. EVENT PROBABILITIES 16 DEC-18 DEC

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 DEC 083

PREDICTED 16 DEC-18 DEC 085/084/083

90 DAY MEAN 15 DEC 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 DEC 010/015

ESTIMATED AFR/AP 15 DEC 007/015

PREDICTED AFR/AP 16 DEC-18 DEC 018/025-018/025-010/020

SOLTERWARN

BT