

HFUS3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 348

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 14 DEC 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100  
TO 14/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24  
HOURS. REGION 4708 (N04E10) WAS A CAO TYPE SPOT GROUP. IT  
SUSTAINED SOME GROWTH WHILE CONTINUING TO PRODUCE MINOR FLARE  
ACTIVITY. NEW REGION 4709 (S10E34) GREW RAPIDLY AND WAS  
NUMBERED TODAY. IT WAS A CRO TYPE SPOT GROUP. 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 13/2100Z TO 14/2100Z:  
GEOMAGNETIC ACTIVITY HAS BEEN UNSETTLED TO ACTIVE FOR THE PAST  
24 HOURS. THE SUDDEN COMMENCEMENT ~~AT MIDDLE LATITUDES~~ <sup>GEOMAGNETIC STORM</sup> WHICH  
BEGAN 2119 UT ON 12 DECEMBER HAD ENDED BY 1100 UT ON 14  
DECEMBER. UNSETTLED CONDITIONS HAVE PREDOMINATED SINCE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS  
EXPECTED TO BE UNSETTLED FOR THE NEXT 24 HOURS AND ACTIVE FOR  
THE SUBSEQUENT 48 HOURS. ACTIVE CONDITIONS ARE FORECAST FOR  
16-17 DECEMBER ON THE BASIS OF THE EXPECTED EFFECTS OF ONE OR  
BOTH DISAPPEARING FILAMENTS OF 12 DECEMBER (S13E27, 5 DEGREES)  
AND 13 DECEMBER (S14E25, 10 DEGREES).

III. EVENT PROBABILITIES 15 DEC-17 DEC

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 DEC 079

PREDICTED 15 DEC-17 DEC 080/080/079

90 DAY MEAN 14 DEC 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 DEC 028/036

ESTIMATED AFR/AP 14 DEC 010/015

PREDICTED AFR/AP 15 DEC-17 DEC 010/015-018/030-018/025

SOLTERWARN

BT