

HFUS 3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 012

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100 TO 12/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW, HOWEVER THE FREQUENCY OF XRAY CLASS C FLARES HAS INCREASED. THE LARGEST EVENT WAS A C3/SB FROM REGION 4393 (S16E47) WITH XRAY MAXIMUM TIME AT 1931Z. PART OF THIS XRAY FLUX WAS CONTRIBUTED BY REGION 4392 (S12E32) WHICH HAD A SN FLARE AT THE SAME TIME. REGION 4393 HAS CONTINUED TO GROW IN WHITE LIGHT AND HAS HAD AN ARCHED FILAMENT SYSTEM WHILE THE REST OF THE REGIONS HAVE REMAINED STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW, HOWEVER THERE IS A CHANCE FOR AN ISOLATED M CLASS FLARE FROM REGION 4393 IN THE NEXT FEW DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY UNSETTLED WITH SHORT PERIODS AT ACTIVE LEVELS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME ACTIVE ON THE 15TH IN RESPONSE TO A FILAMENT THAT DISAPPEARED ON THE 9TH. UNSETTLED CONDITIONS ARE THEN EXPECTED TO RETURN ON THE 16TH.

III. EVENT PROBABILITIES 13 JAN-15 JAN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 JAN 105

PREDICTED 13 JAN-15 JAN 107/108/105

90 DAY MEAN 12 JAN 094

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 JAN 007/010

ESTIMATED AFR/AP 12 JAN 008/010

PREDICTED AFR/AP 13 JAN-15 JAN 010/010-015/015-010/010

SOLTERWARN

BT