

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

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