

HFUS3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 016

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 JAN 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100 TO 16/2100Z: SOLAR ACTIVITY HAS REMAINED VERY LOW. THE LARGEST EVENT THIS PERIOD WAS AN XRAY CLASS B4 EVENT WITH XRAY MAXIMUM TIME OF 16/1631Z. THIS WAS NOT OPTICALLY CORRELATED TO ANY REGION DUE TO CLOUDS AT THE OBSERVATORIES. THERE WERE FOUR OTHER B LEVEL EVENTS, ALL CORRELATED TO REGION 4616 (S07W35). THE LARGEST OF THESE WAS A B3/1B WITH XRAY MAXIMUM TIME OF 16/1415Z. REGION 4616 IS STILL A DAI GROUP AND HAS A BETA DELTA MAGNETIC CONFIGURATION. IT NOW HAS A WHITE LIGHT AREA OF 140, AND HAS HAD AN ARCHED FILAMENT SYSTEM MOST OF THE PERIOD. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. THERE IS STILL A SLIGHT CHANCE, HOWEVER, OF ISOLATED M LEVEL XRAY ACTIVITY FROM REGION 4616.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 17 JAN-19 JAN

CLASS M 10/05/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 JAN 077

PREDICTED 17 JAN-19 JAN 076/076/074

90 DAY MEAN 16 JAN 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 JAN 006/012

ESTIMATED AFR/AP 16 JAN 012/010

PREDICTED AFR/AP 17 JAN-19 JAN 007/015-007/010-007/010

SOLTERWARN

BT