

HFUS3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 015

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 JAN 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY HAS REMAINED VERY LOW. REGION 4616 (S08W21) REMAINS THE ONLY SPOTTED REGION ON THE DISK. IT IS A DAI GROUP AND HAS A WHITE LIGHT AREA OF 120 MILLIONTHS OF THE DISK. MAGNETICALLY IT IS A BETA DELTA REGION AND HAD A MAGNETIC GRADIENT OF .43 AT 1545Z. THIS REGION HAS ALSO EXHIBITED AN ARCHED FILAMENT SYSTEM FOR MUCH OF THIS PERIOD. THE LARGEST EVENT THIS PERIOD WAS A C3/1N FLARE FROM THIS REGION WITH AN XRAY MAXIMUM TIME OF 15/1917Z. RADIO BURSTS ACCCOMPANIED THIS FLARE RANGING FROM 19 FU AT 245 MHZ TO 94 FU AT 15400 MHZ. NO NEW REGIONS WERE NUMBERED TODAY.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED WITH ISOLATED PERIODS OF GEOMAGNETIC STORM LEVELS AT HIGH LATITUDES.

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

III. EVENT PROBABILITIES 16 JAN-18 JAN

CLASS M 10/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 JAN 075

PREDICTED 16 JAN-18 JAN 074/074/073

90 DAY MEAN 15 JAN 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 JAN 006/010

ESTIMATED AFR/AP 15 JAN 009/012

PREDICTED AFR/AP 16 JAN-18 JAN 007/010-007/015-007/010

SOLTERWARN

BT