

HFUS 3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 001

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/2100 TO 01/2100Z: THE SOLAR ACTIVITY HAS BEEN AT A VERY LOW LEVEL FOR THE PAST 24 HOUR PERIOD. REGION 4384 (N14W24) GREW AGAIN INTO A CLASS "BXO" BETA-TYPE WITH 5 SPOTS. IT WAS THE ONLY SPOTTED REGION. NO NEW REGIONS WERE ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO BE AT A VERY LOW LEVEL THROUGH-OUT THE FORECAST PERIOD. REGION 4384 PROVIDES A FAIR CHANCE OF LOW LEVEL ACTIVITY. RETURNING REGION 4374 (N02 CAR336) PRODUCED 8 SUB-FLARES AND 1 CLASS "C" X-RAY EVENT DURING ITS LAST ROTATION BUT CROSSED THE LIMB AS A DYING "AXX". IT SHOULD RETURN AT 3/1600UT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 31/2100Z TO 01/2100Z: THE GEOMAGNETIC ACTIVITY HAS BEEN AT MINOR STORM TO ACTIVE LEVELS DURING THE PAST 24 HOUR PERIOD. PERIODS OF MAJOR STORM LEVELS HAVE BEEN RECORDED AT HIGH LATITUDE STATIONS. THIS DISTURBANCE WAS ATTRIBUTED TO THE DISAPPEARING FILAMENTS ON 26/27 DEC, 1983.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT MINOR STORM TO ACTIVE LEVELS THROUGH-OUT THE FORECAST PERIOD, WITH BRIEF PERIODS OF MAJOR LEVEL ACTIVITY AT HIGH LATITUDE SITES. THIS WILL BE THE SIXTH (6TH) DAY SINCE THE DISAPPEARANCE OF THE FILAMENTS ON THE 26/27TH OF DEC, '83. RECURRENCE WILL RISE TO SUPPLANT AND REPLACE THIS DISAPPEARING FILAMENT DISTURBANCE SO THAT OVERALL VALUES WILL REMAIN IN THE ACTIVE/MINOR STORM RANGE.

III. EVENT PROBABILITIES 02 JAN-04 JAN

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 JAN 087

PREDICTED 02 JAN-04 JAN 089/090/090

90 DAY MEAN 01 JAN 099

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 DEC 020/025

ESTIMATED AFR/AP 01 JAN 024/030

PREDICTED AFR/AP 02 JAN-04 JAN 025/025-025/025-020/020

SOLTERWARN

BT