

HFUS 3 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 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100 TO 16/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. REGION 4393 (S16W08) CONTINUES TO BE THE LARGEST AND MOST ACTIVE SPOT GROUP ON THE DISK WITH A F TYPE SPOT CLASSIFICATION AND A BETA GAMMA MAGNETIC CONFIGURATION. THE LEVEL OF ACTIVITY HAS REMAINED BELOW C LEVELS FOR X-RAYS AND CONSISTED OF SUBFLARES OPTICALLY. THE REGION HAS SHOWN SLIGHT DECAY THIS PERIOD.

REGION 4392 (S13W22) IS NOW A C TYPE SPOT GROUP AND HAS BEEN QUIET. ONE NEW REGION WAS NUMBERED THIS PERIOD, 4394 (S04E72), A C TYPE SPOT GROUP. THE REST OF THE DISK APPEARED STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW THIS PERIOD. THERE IS A SLIGHT CHANCE OF MODERATE ACTIVITY IF REGION 4393 SHOWS DRAMATIC CHANGES IN IT'S PRESENT CONFIGURATION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET AT ALL LATITUDES THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE QUIET AT MIDLATITUDES AND UNSETTLED AT HIGH LATITUDES THE FIRST DAY OF THE FORECAST. THE FINAL TWO DAYS OF THE PERIOD, THE FIELD SHOULD BE UNSETTLED AT MIDLATITUDES AND ACTIVE AT HIGH LATITUDES.

III. EVENT PROBABILITIES 17 JAN-19 JAN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 JAN 101

PREDICTED 17 JAN-19 JAN 100/101/102

90 DAY MEAN 16 JAN 094

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 JAN 006/006

ESTIMATED AFR/AP 16 JAN 007/010

PREDICTED AFR/AP 17 JAN-19 JAN 005/010-010/015-010/015

SOLTERWARN

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