

HFUS 3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 017

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100 TO 17/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. EVENTS HAVE BEEN LIMITED TO B LEVEL X-RAY FLARES, MINOR RADIO BURSTS AND OPTICAL SUBFLARES. REGION 4393 (S16W00) HAS DECAYED

SLIGHTLY AND IS NOW AN E TYPE SPOT GROUP. THE MAGNETIC CONFIGURATION OF THIS REGION IS STILL BETA GAMMA. REGIONS 4392 (S13W34) AND 4394 (S04E60) HAVE SPOT CLASSIFICATIONS OF HAX AND CSO, RESPECTIVELY. THESE REGIONS APPEAR STABLE AND ARE NOT EXPECTED TO PRODUCE SIGNIFICANT ACTIVITY. ONE NEW REGION WAS NUMBERED THIS PERIOD, 4395 (S16E67), AN H TYPE SPOT GROUP. THE REST OF THE DISK APPEARS STABLE AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW THROUGHOUT THE FORECAST PERIOD. ISOLATED M CLASS X-RAY FLARES ARE STILL POSSIBLE IF THERE ARE SIGNIFICANT CHANGES IN REGION 4393.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AT ALL LATITUDES THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE UNSETTLED AT MIDLATITUDES AND UNSETTLED TO ACTIVE AT HIGH LATITUDES THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 18 JAN-20 JAN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 JAN 098

PREDICTED 18 JAN-20 JAN 097/096/096

90 DAY MEAN 17 JAN 094

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 JAN 005/008

ESTIMATED AFR/AP 17 JAN 007/010

PREDICTED AFR/AP 18 JAN-20 JAN 010/010-010/015-010/015

SOLTERWARN

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