

END OF BUFFER

HFUS 1 BOU 071300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 007A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 07 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 07/1200Z: SOLAR ACTIVITY HAS REMAINED LOW. THE LARGEST XRAY EVENT THIS PERIOD WAS A SLOW RISING, LONG LIVED, OPTICALLY UNCORRELATED C4 WITH MAXIMUM TIME AT 07/1006Z. THE LARGEST CORRELATED EVENT WAS A C2/SB FROM REGION 4051 (N10E44) WITH XRAY MAXIMUM AT 07/0208Z. BOTH REGIONS 4046 (S16W31), AND 4048 (S15E30) CONTINUE TO DEVELOPE AND HAVE INCREASED IN WHITE LIGHT AREA. REGION 4054 (S16E26) A SMALL H GROUP, AND 4055 A SMALL A GROUP WERE NUMBERED THIS PERIOD. BOTH OF THESE WERE INCLUDED IN REGION 4048 YESTERDAY BUT WERE SPLIT OUT DUE TO THEIR MAGNETIC CONFIGURATIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. THE CONTINUED DEVELOPEMENT OF REGIONS 4046 AND 4048 INDICATE THAT AN ISOLATED M CLASS EVENT IS POSSIBLE DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED TO BECOME ACTIVE ON THE 3TH IN RESPONSE TO A FAVORABLY LOCATED CORONAL HOLE, AND THEN SUBSIDE TO UNSETTLED TO QUIET CONDITIONS FOR THE REMAINDER OF THE FORECAST.

III. EVENT PROBABILITIES 08 JAN-10 JAN

CLASS M 30/35/40

CLASS X 01/05/05

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JAN 170

ESTIMATED 07 JAN 175

PREDICTED 08 JAN-10 JAN 180/187/185

90 DAY MEAN 06 JAN 175

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 JAN 006 AP 06 JAN 006

ESTIMATED AFR 06 JAN 005 AFR/AP 07 JAN 008/010

PREDICTED AFR/AP 08 JAN-10 JAN 015/015-010/010-007/010

SOLTERWARN

BT

HFUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 007B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200Z TO 07/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST EVENT OF THE PERIOD WAS A C2/SN FLARE FROM REGION 4051 (N10E32) AT 1528Z MAXIMUM. THIS REGION HAS EXHIBITED SLOW SPOT DECAY WHILE MAINTAINING MODERATELY BRIGHT H-ALPHA PLAGE. REGIONS 4046 (S16W43) AND 4048 (S15E18) CONTINUE TO BE THE MOST COMPLEX OF THE DISK REGIONS, BUT HAVE PRODUCED LITTLE ACTIVITY DURING THE PERIOD. REGION 4046 DISPLAYS SLOW GROWTH ALONG WITH AN ARCH FILAMENT SYSTEM, WHILE REGION 4043 HAS STABILIZED AS A D-TYPE BETA-GAMMA SPOT GROUP. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: ACTIVITY IS EXPECTED TO REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PERIOD. UNSETTLED CONDITIONS ARE EXPECTED TO RETURN DURING THE NEXT 24 HOURS AND LAST FOR ABOUT 48 HOURS. THE LAST DAY OF THE FORECAST PERIOD IS EXPECTED TO BE QUIET.

III. EVENT PROBABILITIES 08 JAN-10 JAN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JAN 169

PREDICTED 08 JAN-10 JAN 165/163/160

90 DAY MEAN 07 JAN 175

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 JAN 002/006

ESTIMATED AFR/AP 07 JAN 006/007

PREDICTED AFR/AP 08 JAN-10 JAN 012/015-010/010-007/010

SOLTERWARN

BT