

HFUS 3 BOU 161300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SFC NUMBER 290A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200Z - 16 OCTOBER 1980

IA. SOLAR ACTIVITY REMAINS MODERATE WITH AN M2/1B FLARE AT
15/1249 UT FROM REGION 2724 (N12W75). THIS REGION IS GROWING
IN SPOT SIZE AND IS ACTIVE IN H-ALPHA. REGION 2725 (S11W32)
IS NOT GROWING BUT THE FLARE IS VERY BRIGHT AND COMPACT. IT
CONTINUES TO PRODUCE MINOR SUBFLARES AND APPEARS CAPABLE OF
PRODUCING A MAJOR FLARE. REGION 2717 (N13W57) IS DECAYING AND
HAS HAD MINOR ACTIVITY. REGION 2734 (S29E14) IS SMALL BUT IS
GROWING IN SPOT AREA AND THE FLARE IS BRIGHT. IT HAS PRODUCED
3 SUBFLARES THE PAST 24 HOURS. ONLY MINOR ACTIVITY IS REPORTED
FROM OTHER REGIONS. SMALL NEW REGIONS HAVE BEEN OBSERVED AT N20,
N12 AND S38 ON THE EAST LIMB, AND REGIONS ARE DEVELOPING ON
THE DISK AT S08W26 AND S23E56. NONE OF THESE REGIONS HAVE BEEN
NUMBERED. LOW ENERGY PROTONS CONTINUE TO BE OBSERVED AT LEVELS
JUST ABOVE BACKGROUND.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE BUT WITH A DECREASING
PROBABILITY OF A MAJOR EVENT AFTER 17 OCTOBER WHEN REGION 2724
IS BEYOND WEST LIMB.

II. THE GEOMAGNETIC FIELD WAS ACTIVE TO UNSETTLED FROM 14/1950 UT
TO 16/0000 UT. SINCE THEN IT HAS BEEN QUIET AND IS EXPECTED TO
REMAIN QUIET TO UNSETTLED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 17 OCTOBER - 19 OCTOBER

CLASS M 95/90/90

CLASS X 15/10/10

PROTON 23/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 OCTOBER 238

ESTIMATED 16 OCTOBER 229

PREDICTED 17-19 OCTOBER 221/215/205

90-DAY MEAN 15 OCTOBER 187

V. GEOMAGNETIC INDICES

OBSERVED AFR 14 OCTOBER 09 AP 15 OCTOBER 13

ESTIMATED AFR 15 OCTOBER 11 AFR/AP 16 OCTOBER 06/13

PREDICTED AFR 17-19 OCTOBER 10/13 - 08/10 - 08/10

SOLTERWARM

BT

HFUS 1 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 290B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 OCTOBER 1980

IA. SOLAR ACTIVITY HAS BEEN AT LOW LEVELS DURING THE PAST 24
HOURS. THE LARGEST FLARE TODAY REACHED ONLY THE C7 X-RAY LEVEL.

IB. SOLAR ACTIVITY IS FORECAST TO RETURN TO MODERATE LEVELS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE ENTIRE DAY
TODAY. THESE CONDITIONS ARE FORECAST TO CONTINUE.

III. EVENT PROBABILITIES 17 OCTOBER - 19 OCTOBER

CLASS M 95/85/85

CLASS X 10/10/10

PROTON 15/10/10-

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 OCTOBER 216

PREDICTED 17-19 OCTOBER 206/194/188

90-DAY MEAN 16 OCTOBER 186

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 OCTOBER 12/13

ESTIMATED AFR/AP 16 OCTOBER 03/06

PREDICTED AFR/AP 17-19 OCTOBER 06/08 - 06/08 - 06/10

SOLTERWARN

BT