

HFUS/3 BOU 011311

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
REF NUMBER 275 A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 1 OCT 1980

IA. SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL WITH ONLY SMALL C CLASS FLARES SINCE THE M2 FLARE FROM REGION 2701 (N14E30) AT 30/1823Z. SLOW CHANGES CONTINUE TO BE REPORTED IN THE AREA OF REGION 2701, IN PARTICULAR. AN ISOLATED POLE JUST SOUTH OF THE LEADER WAS REPORTED BY THE LEARMONT OBSERVATORY. RESTRUCTURING ALSO IS TAKING PLACE IN REGION 2699 (N2E20) AND NEW FIELDS MAY BE EMERGING EAST OF THE MAIN SPOT. ALL OTHER REGIONS APPEAR STABLE OR DECLINING. A SIMPLE REGION, NUMBERED 2708 (N14E70) HAS ROTATED ON TO THE DISK BEHIND 2707 (N15E62). EMERGING FLUX HAS BEEN REPORTED NEAR S09W22, N13W03, AND S15W59. AN ERUPTIVE PROMINENCE AT NE30 WAS OBSERVED BY CULGOORA AT 01/0200Z.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT ITS CURRENT LOW LEVEL WITH INFREQUENT CLASS M FLARES. THESE EVENTS ARE MOST LIKELY FROM THE AREA AROUND REGION 2701 AND TO A LESSER EXTENT REGION 2697. NO SIGNIFICANT REGIONS ARE DUE BACK ON THE EAST LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET EXCEPT FOR A BRIEF UNSETTLED PERIOD AROUND 30/1800Z. THE FIELD IS EXPECTED TO BE QUIET TO SLIGHTLY UNSETTLED THRU THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 01 OCT - 04 OCT

CLASS M (20) 5 0/4 0/3 0

CLASS X (02) 05/02/01

PROTON (01) 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 30 SEP 174

ESTIMATED 01 OCT 170

PREDICTED 2 OCT - 04 OCT 168/165/160

90 DAY MEAN 30 SEP 180

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 29 SEP 08/08

ESTIMATED AFR/AP 30 SEP - 1 OCT 08/06 03/06

PREDICTED AFR/AP 02 OCT - 04 OCT 06/10 06/08 08/08

SOLTERWARN

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HEUS 1 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDE NUMBER 275B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1220 UT 01 OCTOBER 1980

IA. SOLAR ACTIVITY HAS CONTINUED AT A LOW LEVEL DURING THE PAST 10 HOURS WITH ONLY SMALL C-CLASS SUBFLARES OBSERVED. REGION 2701 (N 15E24) HAS BEEN THE PRIMARY PRODUCER OF THIS ACTIVITY WITH A SUBFLARE OBSERVED ABOUT EVERY HOUR FROM AN ISOLATED POLE LOCATED JUST SOUTHWEST OF THE LARGEST LEADER SPOT WHERE A TIGHT GRADIENT EXISTS. THE NEW REGION 2708 MENTIONED IN TODAY'S 1200Z MESSAGE WAS DETERMINED TO BE PART OF REGION 2707 (N 15E58) BASED ON MT. WILSON DATA. THE 2708 NUMBER HAS BEEN GIVEN TO A RAPIDLY EMERGING C-TYPE SPOT GROUP AT S 14W63. REGION 2709 (N 13E14) HAS EMERGED AS A SMALL A-TYPE GROUP.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO SLIGHTLY UNSETTLED CONDITIONS ARE EXPECTED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 02 OCTOBER - 04 OCTOBER

CLASS M 50/40/30

CLASS X 05/02/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 OCTOBER 171

PREDICTED 02-04 OCTOBER 170/168/165

90-DAY MEAN 01 OCTOBER 180

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 30 SEPTEMBER 06/06

ESTIMATED AFR/AP 01 OCTOBER 03/06

PREDICTED AFR/AP 02-04 OCTOBER 06/10 - 06/08 - 08/08

EFFECTIVE 1 OCT 1980, NOAA-SESC/AFGWC WILL ISSUE TWO DAILY FORECASTS, ONE AT 1200Z AND THE OTHER AT 2200Z. THE 1200Z FORECAST WILL EMPHASIZE DETAILS ON SOLAR ACTIVE REGION ANALYSIS. THE 2200Z FORECAST WILL DISCUSS MAJOR SOLAR GEOPHYSICAL EVENTS.

SOLARWARN

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