

HFUS 1 80U 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 303

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 30 OCTOBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOUR PERIOD.
SEVERAL LOW CLASS C X-RAY EVENTS WERE OBSERVED EARLY IN THE
PERIOD WITH THE HIGHEST REACHING A C-3 MAX AT 30/0351Z.

OPTICAL REPORTS WERE LIMITED DURING THIS PERIOD. A SUBFLARE
WAS OBSERVED IN REGION 1364 (S18W 68) AT 1255Z. REGION 1365
(N17W28) APPEARS TO BE SLOWLY DECAYING; HOWEVER, REGION 1370
(N21W32) LOCATED IN CLOSE PROXIMITY IS STILL INTERESTING. TWO
NEW REGIONS, 1375 (S25W 65) AND 1376 (N16W 05), ARE SIMPLE B AND
A TYPES AND ARE STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH THE POSSIBILITY
OF ENERGETIC EVENTS OCCURRING FROM THE 1365/1370 COMPLEX AND
DEPARTING REGION 1355.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 24 HOURS.
THIS CONDITION WILL PERSIST THROUGH THE REMAINDER OF THE 30TH AND
FIRST HALF OF THE 31ST, BECOMING GENERALLY UNSETTLED UNTIL
1 NOVEMBER.

III. EVENT PROBABILITIES 31 OCT - 02 NOV

CLASS M 50/50/50

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 OCT 149

PREDICTED 31-2 NOV 150/151/153

90-DAY MEAN 30 OCT 145

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 OCT 10

ESTIMATED AFR/AP 30 OCT 18/30

PREDICTED AFR/AP 31 OCT-02 NOV 18/30 - 12/24 - 10/15

SOLTERVARN

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HFUS 1 BOU

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 303

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 30 OCTOBER 1979

IA. SOLAR ACTIVITY HAS BEEN EXCEPTIONALLY LOW CONSIDERING THE HIGH
RADIO FLUX AND THE NUMBER OF SUNSPOT REGIONS NOW PRESENT ON THE SUN.
SIGNIFICANT BUT QUIET ACTIVE REGIONS HAVE ROTATED INTO VIEW AT S13E64
(2091), N25E71 (2092) AND N14E74 (2093). GROWTH IN THE SOUTHERN POR-
TION OF A FAINT FLAGE COMPLEX HAS PRODUCED A SMALL SPOT GROUP AT
S28E23 (REGION 2094). REGION 2084 (N18E31) DOMINATES THE VISIBLE
DISK WITH ITS LARGE AND STABLE CLASS F SPOT GROUP. ONLY THREE CLASS
C X-RAY EVENTS WERE RECORDED BY SATELLITES SO FAR TODAY.

IB. SOLAR ACTIVITY WILL RISE GRADUALLY AS ADDITIONAL REGIONS RETURN AT
EAST LIMB AND AS ACTIVE REGIONS RESUME A MORE RAPID EVOLUTION.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. QUIET
CONDITIONS WILL CONTINUE UNTIL A SECTOR BOUNDARY PASSAGE BRINGS
ACTIVE CONDITIONS ON THE THIRD DAY OF THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 31 OCTOBER - 02 NOVEMBER

CLASS M 40/50/70

CLASS X 01/02/03

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 OCT 221

PREDICTED 31 OCT - 02 NOV 224/226/228

90-DAY MEAN 30 OCT 199

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 OCT 06

ESTIMATED AFR/AP 30 OCT 04/10

PREDICTED AFR/AP 31 OCT - 02 NOV 06/12 05/10 25/25

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