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HFUS 1 BOU 041300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 338A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 04 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
03/1200Z TO 04/1200Z: SOLAR ACTIVITY HAS BEEN AT MODERATE LEVELS
DURING THIS PERIOD. ONLY ONE M-CLASS EVENT WAS OBSERVED, AN
M1/SB FROM REGION 3484 (N17W57) AT 03/1743Z. THE BACKGROUND
XRAY FLUX HAS BEEN ELEVATED MUCH OF THE PERIOD (C2 TO C3
LEVEL), PROBABLY DUE TO WEST LIMB SURGING BY REGION 3478
(N13W89). FIVE NEW REGIONS WERE NUMBERED TODAY, FOUR OF THEM
IN A NARROW LONGITUDINAL BAND NEAR THE EAST LIMB. CONSIDERING
THAT THERE ARE CURRENTLY 19 SPOTTED REGIONS ON THE DISK, THE
SUN HAS BEEN RELATIVELY QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW
TO MODERATE. WITH SO MANY ACTIVE REGIONS, WE SHOULD EXPECT AT
LEAST ONE OR TWO REGIONS TO DEVELOP INTO MAJOR FLARE PRODUCERS
DURING THE NEXT FEW DAYS. REGION 3492 (N18E53), NOW WITH AN
AREA OVER 500 MILLIONTHS AND AN EKI MCINTOSH CLASSIFICATION,
SHOULD BE WATCHED CLOSELY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS
ACTIVE EARLY IN THIS PERIOD, BUT IT HAS NOW SETTLED DOWN TO
QUIET TO SLIGHTLY UNSETTLED LEVELS. 27-DAY RECURRENCE AND THE
LARGE NUMBER OF REGIONS CURRENTLY ON THE DISK SUGGEST THAT
HIGHLY UNSETTLED OR ACTIVE LEVELS ARE LIKELY FOR THE NEXT
SEVERAL DAYS.

III. EVENT PROBABILITIES 05 DEC-07 DEC

CLASS M 65/75/85
CLASS X 10/10/10
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 DEC 246
ESTIMATED 04 DEC 255
PREDICTED 05 DEC-07 DEC 260/255/250
90 DAY MEAN 03 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 DEC 008 AP 03 DEC 008
ESTIMATED AFR 03 DEC 012 AFR/AP 04 DEC 008/010
PREDICTED AFR/AP 05 DEC-07 DEC 015/018-010/015-012/020

SQLTERWARN

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HFUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 338B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
04/1200Z TO 04/2100Z: SOLAR ACTIVITY HAS BEEN LOW. ONLY LOW TO
MODERATE LEVEL CLASS C EVENTS HAVE BEEN OBSERVED. VERY LITTLE
DATA HAVE BEEN RECEIVED BUT MOST OF THE MANY REGIONS ON THE
DISK APPEAR TO BE STABLE OR EXHIBITING ONLY MINOR CHANGES.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO
MODERATE FOR THE NEXT THREE DAYS. MOST REGIONS ARE NOT
ESPECIALLY COMPLEX WITH THE EXCEPTION OF REGION 3492 (N18E52)
WHICH SHOWS A REVERSE POLARITY CONFIGURATION. NO SIGNIFICANT
REGIONS ARE EXPECTED AT THE EAST LIMB DURING THE FORECAST
PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD
CONTINUES UNSETTLED. GENERALLY UNSETTLED CONDITIONS ARE
EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 05 DEC-07 DEC

CLASS M 65/75/75

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 DEC 249

PREDICTED 05 DEC-07 DEC 245/242/228

90 DAY MEAN 04 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 DEC 009/007

ESTIMATED AFR/AP 04 DEC 012/010

PREDICTED AFR/AP 05 DEC-07 DEC 012/012-010/014-012/016

SOLTERWARN

BT

NNNNZS