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KBOU

HFUS 1 BOU 051300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 3394

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 05 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z TO 05/1200Z: SOLAR ACTIVITY HAS BEEN AT LOW LEVELS (NO M-CLASS EVENTS), BUT C-CLASS EVENTS HAVE BEEN OCCURRING FREQUENTLY. THE SUN IS STILL WELL-COVERED WITH SIMPLE ACTIVE REGIONS. REGION 3492 (N19E44) ACCOUNTED FOR ABOUT ONE HALF OF THE OBSERVED SUBFLARES DURING THIS PERIOD. ONLY ONE ACTIVE REGION WAS NUMBERED TODAY, REGION 3520 AT N29E64.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. A SMALL M-CLASS EVENT OR TWO IS MOST LIKELY FROM EITHER REGION 3492 OR 3487 (N26E16). WITH 16 SPOTTED REGIONS ON THE DISK, FREQUENT SUBFLARE ACTIVITY IS LIKELY TO CONTINUE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED, WITH THE BOULDER K-INDEX AT TWO'S AND THREE'S DURING THIS PERIOD. A SOLAR SECTOR BOUNDARY PASSAGE ON 4 DEC SUGGESTS THE POSSIBILITY OF ACTIVE CONDITIONS ON 8 DEC. OTHERWISE, THE FIELD SHOULD REMAIN UNSETTLED.

III. EVENT PROBABILITIES 06 DEC-08 DEC

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 DEC 249

ESTIMATED 05 DEC 245

PREDICTED 06 DEC-08 DEC 240/235/230

90 DAY MEAN 04 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 DEC 039 AFR 04 DEC 010

ESTIMATED AFR 04 DEC 012 AFR/AF 05 DEC 010/011

PREDICTED AFR/AF 06 DEC-08 DEC 010/014-012/016-015/013

SOLTERWART

BT

NNNNZV

HFUS 3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 339B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 05 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
05/1200Z TO 05/2100Z: SOLAR ACTIVITY HAS BEEN LOW. MID-LEVEL
CLASS C EVENTS CONTINUE TO BE PRODUCED BY MANY SEPARATE
REGIONS. LEADER GROWTH AND TRAILER DECAY HAVE BEEN NOTED IN
REGION 3492 (N19E39). REGION 3496 (N07E39) HAS EXHIBITED AN
OVERALL GROWTH TREND. AN H CLASS SPOT HAS ROTATED ONTO THE
DISK AND HAS BEEN NUMBERED 3501 (N18E80).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BECOME
MODERATE CONSISTING MAINLY OF FREQUENT SUBFLARES WITH
OCCASIONAL CLASS M FLARES BEING OBSERVED. NO SIGNIFICANT
REGIONS ARE EXPECTED TO RETURN TO THE EAST LIMB DURING THE
FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED
FOR THE NEXT TWO DAYS WITH SLIGHTLY ACTIVE LEVELS FORECAST FOR
08 DECEMBER.

III. EVENT PROBABILITIES 06 DEC-08 DEC

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 DEC 268

PREDICTED 06 DEC-08 DEC 270/268/265

90 DAY MEAN 05 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 DEC 011/010

ESTIMATED AFR/AP 05 DEC 010/011

PREDICTED AFR/AP 06 DEC-08 DEC 010/014-012/016-015/018

SOLTERWARN

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HXUS BOU 052200

PREDM 07506 07507 07508

PREDX 01006 01007 01008

PREDP 00106 00107 00108

PCAF 00106

TENCM 27006 26807 26508

AFRED 01006 01207 01508

AFAPF 01406 01607 01808

BT