

HFUS 1 BOU 151300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 105A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 15 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 15/1200Z: SOLAR ACTIVITY HAS BEEN LOW. NINE SUBFLARES WITH VERY SMALL C-CLASS XRAY EVENTS HAVE BEEN REPORTED. REGION 3688 (N17W41) IS THE MOST INTERESTING REGION ON THE DISK BECAUSE ITS SPOT GROUP REMAINS MAGNETICALLY COMPLEX ALTHOUGH IT HAS BEGUN TO DECAY. IT PRODUCED ONLY ONE FLARE IN THE PAST 24 HOURS, A SB AT 15/0513Z. REGION 3687 (S09E01) HAS AN ASSOCIATED ACTIVE FILAMENT AND PRODUCED TWO SMALL FLARES AT 14/2349Z AND 15/0445Z. ALL OTHER REGIONS ARE STABLE OR DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE FORECAST PERIOD. REGIONS 3688 OR 3687 MAY PRODUCE ISOLATED M-CLASS XRAY EVENTS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. ACTIVE CONDITIONS ARE EXPECTED ON 17 APR DUE TO FLARE ACTIVITY ON 14 APR AND RECENT DISAPPEARING FILAMENTS. THE REMAINDER OF THE PERIOD SHOULD BE UNSETLED.

III. EVENT PROBABILITIES 16 APR-18 APR

CLASS M 50/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 APR 157

ESTIMATED 15 APR 150

PREDICTED 16 APR-18 APR 148/146/146

90 DAY MEAN 14 APR 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR 13 APR 012 AP 14 APR 009

ESTIMATED AFR 14 APR 009 AFR/AP 15 APR 009/012

PREDICTED AFR/AP 16 APR-18 APR 012/019-018/023-012/014

SOLTERWARN

BT

HXUS BOU 151300
PREDM 05016 03017 03018
PREDX 00116 00117 00118
PREDP 00116 00117 00118
PCAFT 00116
TENCM 14816 14617 14618
AFRED 01216 01817 01218
AFAPF 01916 02317 01418
KKK 33344 32333 45432
BT

HFUS 3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 105B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/1200Z TO 15/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING THIS PERIOD. FIVE (5) REGIONS HAVE PRODUCED OPTICAL EVENTS THIS PERIOD WITH THE LARGEST X-RAY EVENT FROM REGION 3688 (N16W47), A C1/SN, AT 1709UT. ALL OLD REGIONS WERE STABLE OR LITTLE CHANGED THIS PERIOD. TWO NEW REGIONS ARE 3696 (S17E23) A GROWING C-TYPE AND 3697 (S15W47) A SIMPLE B-TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. THE FIELD IS EXPECTED TO BE UNSETLED UNTIL 17 APRIL WHEN ACTIVE CONDITIONS ARE EXPECTED. UNSETLED CONDITIONS ARE EXPECTED TO RETURN ON 18 APRIL.

III. EVENT PROBABILITIES 16 APR-18 APR

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 APR 151

PREDICTED 16 APR-18 APR 148/146/146

90 DAY MEAN 15 APR 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 APR 007/009

ESTIMATED AFR/AP 15 APR 009/011

PREDICTED AFR/AP 16 APR-18 APR 012/019-018/023-012/014

SOLTERWARN

BT

HXUS BOU 152200

PREDM 03016 03017 03018

PREDX 00116 00117 00118

PREDP 00116 00117 00118

PCAFPT 00116

TENCM 14816 14617 14618

AFRED 01216 01817 01218

AFAPF 01916 02317 01418

BT