

HFUS 1 BOU 041300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 094A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 04 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z TO 04/1200Z: SOLAR ACTIVITY HAS BEEN BARELY MODERATE. C CLASS SUBFLARES HAVE BEEN OBSERVED THIS PERIOD WITH OCCASIONAL DISCRETE RADIO BURSTS UNTIL THE LATE HOURS OF THE PERIOD. REGION 3662(S18W52) IS A STABLE RELATIVELY INSIGNIFICANT APPEARING REGION WHICH HAS PRODUCED TWO 1B FLARES, A C5/1B AT 04/0341Z AND A C9/1B AT 04/0800Z. REGION 3659 (N11W88), THE ONLY REGION TO APPEAR CAPABLE OF MAJOR ACTIVITY SEEMS TO BE LEAVING THE DISK QUIETLY. UNTIL GROWTH TAKES PLACE OR NEW REGIONS ROTATE ONTO THE DISK, THERE APPEARS TO BE LITTLE PROSPECT OF MAJOR ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY MAY BE EXPECTED TO DECLINE TO LOW LEVELS. ANOTHER MAJOR FLARE FROM REGION 3659 IS A DIMINISHING POSSIBILITY DURING DEPARTURE FROM THE VISIBLE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT MINOR STORM LEVELS IN RECENT HOURS, HAVING DECLINED FROM EARLIER MAJOR STORM CONDITIONS. ACTIVE TO UNSETLED LEVELS SHOULD OCCUR AS THIS DECLINE CONTINUES. FURTHER FLARE RELATED DISTURBANCE SHOULD REACTIVATE THE FIELD TO MINOR STORM LEVELS BRIEFLY DURING 5 APRIL.

III. EVENT PROBABILITIES 05 APR-07 APR

CLASS M 50/40/30

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 APR 170

ESTIMATED 04 APR 168

PREDICTED 05 APR-07 APR 171/173/178

90 DAY MEAN 03 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 APR 036 AP 03 APR 043

ESTIMATED AFR 03 APR 031 AFR/AP 04 APR 020/015

PREDICTED AFR/AP 05 APR-07 APR 020/020-012/012-012/012

SOLTERWARN

BT

HXUS BOU 041300
PREDM 05005 04006 03007
PREDX 00505 00106 00107
PREDP 00105 00106 00107
PCAFT 00105
TENCM 17105 17306 17807
AFRED 02005 01206 01207
AFAPF 02005 01206 01207
KKK 33344 33333 43332
RT

HFXS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 094B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z TO 04/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 3659 (N13WL) PRODUCED THE LARGEST EVENT OF THE PERIOD WITH A BRIGHT SURGE ON THE LIMB FROM 1555Z-1725Z TO A MAXIMUM OF .43 SOLAR RADII AT 1628Z. REGION 3674 (S07W11) HAS ENDED ITS RAPID GROWTH PHASE. IT HAS NOT BEEN ACTIVE SINCE YESTERDAY EXCEPT FOR A C6/1N FLARE AT 04/1400Z ALONG AN ACTIVE FILAMENT. A VERY SMALL NEW REGION DEVELOPED ON THE DISK, 3677 (S11E09). THE SPOTS WHICH APPEARED TO BE THE TRAILER PORTION OF REGION 3673 (N07E51) HAVE BEEN SEPERATED INTO NEW REGION 3678 (N09E64) BASED ON MAGNETIC ANALYSIS OF THE REGIONS. NO OTHER SIGNIFICANT ACTIVITY HAS BEEN REPORTED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH NONE OF THE REGIONS CURRENTLY ON THE DISK CAPABLE OF MAJOR FLARE ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED SINCE 1200Z. ACTIVE CONDITIONS ARE EXPECTED 5 APRIL FROM RECENT FLARE ACTIVITY IN REGION 3659.

III. EVENT PROBABILITIES 05 APR-07 APR

CLASS M 50/40/30

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 APR 158

PREDICTED 05 APR-07 APR 156/156/153

90 DAY MEAN 04 APR 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 APR 032/043

ESTIMATED AFR/AP 04 APR 019/020

PREDICTED AFR/AP 05 APR-07 APR 020/020-012/012-012/012

SOLTERWARN

BT

HXUS BOU 042200

PREDM 05005 04006 03007

PREDX 00505 00106 00107

PREDP 00105 00106 00107

PCAFT 00105

TENCM 15605 15606 15807

AFRED 02005 01206 01207

AFAPF 02005 01206 01207

BT