

HFUS 1 BOU 291300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 088A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 29 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/1200Z TO 29/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE CONSISTING OF MID LEVEL CLASS C TO LOW LEVEL CLASS M ACTIVITY IN REGIONS 3659 (N12W06) AND 3662 (S21E26). THE LARGEST OF THESE EVENTS WAS A M1/1B FROM REGION 3659 AT 29/0904Z. MODERATE SHORT WAVE FADE THROUGH 12 MHZ AND MINOR CENTIMETRIC BURSTS ACCOMPANIED THIS FLARE. REGION 3659 CONTINUES A SLOW DECAY AND RFSTRUCTURING. AN ASPECT OF THESE CHANGES HAS BEEN A STRAIGHTENING OF THE PAST CONVOLUTED NEUTRAL LINE. ITS DELTA CONFIGURATION, HOWEVER, REMAINS. THE LARGEST FLARE FROM REGION 3662 WAS A C7/1B. THOUGH THIS REGION HAS DECREASED IN SUNSPOT STRUCTURE, IT CONTINUES TO BE A SIGNIFICANT FLARE PRODUCING REGION. REGIONS 3656 (S15W34) AND 3658 (S12W14) HAVE EACH CONTRIBUTED SEVERAL SUBFLARES. TWO SMALL REGIONS WERE ADDED ON 28 MARCH, REGIONS 3668 (S05E03) AND 3669 (N06E06).

IB. SOLAR ACTIVITY FORECAST: AS REGIONS 3659 AND 3662 CONTINUE A SLOW DECAY, SOLAR ACTIVITY IS EXPECTED TO TREND FROM A MODERATE TO A LOW LEVEL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS VARIED FROM QUIET TO SLIGHTLY ACTIVE CONDITIONS. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED BUT INTERSPERSED WITH ACTIVE PERIODS THROUGH THE NEXT 24-36 HOURS. THE EFFECTS OF THE FLARES IN REGION 3659 ARE EXPECTED TO IMPACT THE EARTH ON 02 APRIL WHEN THE REGION IS IN A FAVORABLE GEOMETRIC POSITION.

III. EVENT PROBABILITIES 30 MAR-01 PAR

CLASS M 80/70/60

CLASS X 05/01/01

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 MAR 201

ESTIMATED 29 MAR 198

PREDICTED 30 MAR-01 PAR 194/190/185

90 DAY MEAN 28 MAR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 MAR 009 AP 28 MAR 006

ESTIMATED AFR 28 MAR 007 AFR/AP 29 MAR 013/015

PREDICTED AFR/AP 30 MAR-01 PAR 012/018-016/015-008/012

SOLTERWARN

BT

HXUS BOU 291300
PREDM 08030 07031 06001
PREDX 00530 00131 00101
PREDP 00530 00131 00101
PCAFT 00130
TENCM 19430 19031 18501
AFRED 01230 01031 00801
AFAPF 01830 01531 01201
KKK 22344 33333 34332
BT

NOTE: APR IS SPELLED
WRONG IN COMPUTER!

Joe

NNNNZCVZDZEZGVZLVZOUU

KBOU

HFUS 3 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 088B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 29 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/1200Z TO 29/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH MID LEVEL C-CLASS EVENTS CONTINUING TO BE PREDOMINANT. REGIONS 3656 (S15W27), 3659 (N12E01) AND 3662 (S21E33) HAVE BEEN THE FLARE PRODUCERS OF THIS PERIOD. REGIONS 3659 AND 3662 SHOW SIGNS OF DECAY, WHILE REGION 3656 SHOWS SOME GROWTH.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL CONTINUE TO BE LOW TO MODERATE WITH HIGH PROBABILITIES OF M-CLASS FLARES. REGIONS 3659 AND 3662 SHOULD CONTINUE TO DECAY BUT WILL CONTINUE TO BE FLARE PRODUCERS FOR THE NEXT COUPLE OF DAYS. REGION 3656 SHOWS PROMISE OF CONTINUED GROWTH AND FLARE PRODUCTION.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE AND SHOULD CONTINUE THIS TREND FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 30 MAR-01 APR

CLASS M 80/70/60

CLASS X 05/01/01

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 MAR 199

PREDICTED 30 MAR-01 APR 194/190/185

90 DAY MEAN 29 MAR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 MAR 005/006

ESTIMATED AFR/AP 29 MAR 013/016

PREDICTED AFR/AP 30 MAR-01 APR 012/014-010/015-008/012

SOLTERWARN

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