

BT

HFUS 1 BOU 251300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 268A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 25 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/1200Z TO 25/1200Z: SOLAR ACTIVITY HAS BEEN LOW. REGIONS 3922(N15E64) AND 3923(S02E74) MOVED ONTO THE SOLAR DISK IN A SOMEWHAT DISTURBED STATE WITH SURGING AND INTENSE PLAGE. THEY NOW GIVE INDICATION OF RELATIVILY SIMPLE STRUCTURES. PENDING FURTHER DEVELOPMENT IN THESE REGIONS THEY APPEAR INCAPABLE OF MAJOR ACTIVITY. REGIONS 3920(206W27) AND 3921(S20E67) APPEAR STABLE. REMAINING REGIONS ALL APPEAR TO BE DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN DECLINING RAPIDLY FROM ACTIVE TO QUIET LEVELS. THE FIELD IS EXPECTED TO BE QUIET EARLY AND BACK TO ACTIVE LEVELS BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 SEP-28 SEP

CLASS M 25/25/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 SEP 166

ESTIMATED 25 SEP 175

PREDICTED 26 SEP-28 SEP 183/188/192

90 DAY MEAN 24 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR 23 SEP 020 AP 24 SEP 022

ESTIMATED AFR 24 SEP 015 AFR/AP 25 SEP 008/011

PREDICTED AFR/AP 26 SEP-28 SEP 012/015-016/015-018/015

SOLTERWARN

BT

HFUS 3 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 268B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 25 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/1200Z TO 25/2100Z: SINCE THE LAST REPORT AT 12Z, SOLAR ACTIVITY HAS REMAINED AT LOW LEVELS. ONLY MINOR PLAGE FLUCTUATIONS AND WEAK C-CLASS XRAY FLARES HAVE BEEN OBSERVED. WHILE REGIONS ON THE WESTERN HALF OF THE DISK ARE GENERALLY DECLINING SLOW GROWTH HAS CONTINUED TO MANIFEST ITSELF EAST OF CENTRAL MERIDIAN. REGION 3922 (N14E55) HAS MORE THAN QUADRUPLED IN SIZE SINCE YESTERDAY WITH FURTHER GROWTH ANTICIPATED. ADDITIONALLY A NEW REGION 3924 (S18E73) APPEARS TO HAVE ROTATED ONTO THE DISK. OTHER REGIONS NOT MENTIONED HAVE REMAINED STABLE AND UNINTERESTING.

IB. SOLAR ACTIVITY FORECAST: DESPITE THE SLOW GROWTH ON THE EASTERN HALF OF THE SUN ALL OF THE REGIONS ON THE DISK ARE MAGNETICALLY SIMPLE AND INCAPABLE OF MAJOR FLARE ACTIVITY. THEREFORE SOLAR ACTIVITY IS EXPECTED TO REMAIN AT GENERALLY LOW LEVELS OVER THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THE DAY. THE FIELD IS EXPECTED TO REMAIN UNSETTLED EARLY IN THE FORECAST PERIOD WITH A GRADUAL TREND TOWARDS ACTIVE CONDITIONS BY THE THIRD DAY.

III. EVENT PROBABILITIES 26 SEP-28 SEP

CLASS M 25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 SEP 170

PREDICTED 26 SEP-28 SEP 173/176/178

90 DAY MEAN 25 SEP 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 SEP 014/022

ESTIMATED AFR/AP 25 SEP 010/011

PREDICTED AFR/AP 26 SEP-28 SEP 012/013-016/012-018/015

SOLTERWARN

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