

HFUS 1 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 249

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 6 SEPTEMBER 1978

I A. SOLAR ACTIVITY HAS BEEN LOW. REGION 1282 (S22W21) CONTINUES TO GROW AND HAS PRODUCED SEVERAL SUBFLARES. THIS REGION CONTAINS TWO WEAK DELTA CONFIGURATIONS IN ITS TRAILER. REGION 1272 (S31W19) REMAINS IMPRESSIVE IN WHITE LIGHT AND THERE IS A DELTA CONFIGURATION IN THE TRAILER OF THIS REGION ALSO. ACTIVE REGIONS 1271 (N1SW28) AND 1276 (N1SW39) HAVE DECAYED SIGNIFICANTLY AND THEIR PLAGE INTENSITY IS MUCH REDUCED FROM YESTERDAY. REGION 1284 (N32E67) IS NOW VISIBLE AS A MODERATELY COMPLEX BETA GAMMA SUNSPOT GROUP.

I B. SOLAR ACTIVITY SHOULD BE AT A MODERATE LEVEL. THE PROXIMITY OF REGIONS 1272 AND 1282 AND THEIR APPARENT INTERACTION COULD LEAD TO THE PRODUCTION OF A MAJOR FLARE FROM THIS COMPLEX AREA.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED WITH QUIET CONDITIONS SINCE APPROXIMATELY 1200 U.T. THE FIELD SHOULD RETURN TO AN UNSETLED CONDITION WITH PERIODS AT ACTIVE LEVELS DURING THIS FORECAST PERIOD. THERE CONTINUES TO BE A GOOD PROBABILITY OF A FLARE INDUCED MAGNETIC STORM SHOULD A FLARE OF SIGNIFICANT MAGNITUDE OCCUR IN REGIONS CURRENTLY IN THE WESTERN HEMISPHERE.

III. EVENT PROBABILITIES 07 SEPTEMBER - 09 SEPTEMBER

CLASS M 90/90/90

CLASS X 40/40/40

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 SEPTEMBER 180

PREDICTED 07-09 SEPTEMBER 177/174/170

90-DAY MEAN 06 SEPTEMBER 134

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 05 SEPTEMBER 06

ESTIMATED AFR/AP 06 SEPTEMBER 10/21

PREDICTED AFR/AP 07-09 SEPTEMBER 15/20 - 17/30 - 18/35

SOLTERWARN

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JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 06 SEPT 1979

IA. SOLAR ACTIVITY WAS LOW DURING THE PAST 24 HOURS. ONLY C-CLASS X-RAY EVENTS HAVE BEEN OBSERVED, WITH THE MAJORITY OF THEM BEING ASSOCIATED WITH REGION 1958 (N 16W 67). REGIONS 1967 (N 14W 13) AND 1972 (N 14E 48) HAVE CONTINUED TO GROW IN SPOT AREA BUT NO FLARE ACTIVITY HAS BEEN CORRELATED TO THEM THIS PERIOD. REGION 1967 EXHIBITED A STRONG ARCH FILAMENT SYSTEM TODAY. THE ONLY NEW REGION WAS 1976 (S 21W 13), AN AX GROUP.

IB. SOLAR ACTIVITY WILL BE AT LOW TO MODERATE LEVELS OVER THE NEXT 24 HOURS. REGIONS 1967 AND 1972 STILL OFFER THE BEST POSSIBILITY OF M-CLASS X-RAY EVENTS.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS, AND THE FORECAST IS FOR ACTIVE CONDITIONS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 07 SEPT - 09 SEPT

CLASS M 5/05 0/5 0

CLASS X 0/1 0/1 0/1

PROTON 0/1 0/1 0/1

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 SEPT 180

PREDICTED 07 SEPT - 09 SEPT 182/184/186

90-DAY MEAN 06 SEPT 170

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 05 SEPT 14

ESTIMATED AFR/AP 06 SEPT 15/20

PREDICTED AFR/AP 07 SEPT - 09 SEPT 14/15 23/35 20/25

SOLAR WARN

BT