

HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 264

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 SEPTEMBER 1978

IA. DATA REMAINS SPARSE AS WEATHER CONTINUES TO PLAGUE THE OBSERVATORIES AND EQUIPMENT PROBLEMS CONTINUE AT THE FORECAST CENTER. REGION 1294 (N35W3D) REMAINS A POTENTIALLY ACTIVE, MATURE DELTA-TYPE GROUP, BUT EXHIBITS SOME DECAY AS IT MOVES TOWARD THE WEST LIMB. REGION 1297 (S22W0E) BEARS WATCHING AS IT APPEARS TO HAVE INCREASED IN MAGNETIC COMPLEXITY AND IN ITS GENERAL LEVEL OF ACTIVITY. REGION 1301 HAS BEEN RELATIVELY ACTIVE WITH AN M-2 AND SEVERAL C-CLASS X-RAY EVENTS.

IB. THE LEVEL OF SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE WITH REGIONS 1294, 1297, AND 1301 POTENTIALLY ACTIVE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AND SHOULD CONTINUE PREDOMINATELY UNSETTLED DURING THE 24 HOUR PERIOD.

III. EVENT PROBABILITIES 22 SEPTEMBER - 24 SEPTEMBER

CLASS M 80/80/80

CLASS X 15/15/15

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 SEPTEMBER 172

PREDICTED 22 - 24 SEPTEMBER 172/172/174

90-DAY MEAN 21 SEPTEMBER 136

V. GEOMAGNETIC A INDICES ^{→ 21}

OBSERVED FREDERICKSBURG 20 SEPTEMBER 03

ESTIMATED AFR/AP ⁽²⁰⁾ SEPTEMBER 08/08

PREDICTED AFR/AP 22 - 24 SEPTEMBER 14/14 - 14/16 - 20/23

SOLTERWARN

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SDF NUMBER 264

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 SEPT 1979

IA. SOLAR ACTIVITY HAS BEEN CONFINED TO ONLY "C" CLASS FLARES SO FAR TODAY. REGION 1994 (N05E05) ALTHOUGH SOMEWHAT CHANGED IN STRUCTURE, STILL HAS A CONFIGURATION THAT INDICATES CONSIDERABLE STRESS YET EXIST IN THE MAGNETIC ALIGNMENT. THE BETA-GAMMA-DELTA REMAINS STRONG IN THE LARGE PENUMBRA AND THE SMALL FILAMENT ADJACENT TO THIS PENUMBRA HAS BEEN ACTIVE. THE OVERALL SPOT AREA HAS DECLINED SLIGHTLY BUT THE SPOT NUMBER HAS INCREASED. REGION 2003 (S09W15) HAS ALSO PRODUCED A COUPLE OF SMALL FLARES BUT BASICALLY THIS REGION IS SMALL AND SIMPLE. THE REGION THAT ROTATED OVER THE EAST LIMB YESTERDAY, REGION 2006 (N18E71), APPEARS TO HAVE SOME MODERATELY BRIGHT PLAGE TRAILING THE SPOT GROUP WHICH REMAINS AN "H" TYPE. THE REST OF THE DISK IS LITTLE CHANGED.

IB. SOLAR ACTIVITY SHOULD BE AT MODERATE LEVELS FOR THE COMING 24 HOURS.

II. THE GEOMAGNETIC FIELD EXPERIENCED A BRIEF PERIOD OF MINOR STORM CONDITIONS DURING THE PAST 24 HOURS BUT WAS PREDOMINATELY UNSETTLED. A GEOMAGNETIC STORM IS EXPECTED TO COMMENCE DURING THE NEXT 24 HOURS WITH MINOR STORM CONDITIONS DOMINATING THE 24 HOUR PERIOD FOLLOWING THE COMMENCEMENT. THE PROTONS AT SATELLITE LEVELS ARE STILL ABOVE EVENT THRESHOLDS AND HOLDING STEADY AROUND 13 PARTICLES/SQ CM/SEC/STER AT ENERGIES GREATER THAN 10 MEV.

III. EVENT PROBABILITIES 22 SEPT - 24 SEPT

CLASS M 90/90/90

CLASS X 60/60/60

PROMPT 60/60/60

PCAF RED

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 SEPT 217

PREDICTED 22 SEPT - 24 SEPT 216/215/212

90-DAY MEAN 21 SEPT 175

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 20 SEPT 18

ESTIMATED AFR/AP 21 SEPT 18/20

PREDICTED AFR/AP 22 SEPT - 24 SEPT 35/35 25/30 16/20

SOLTERWAR N

BT