

HFUS 1 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 269

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 26 SEPTEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. THE ONLY SIGNIFICANT FLARE WAS A C5/1N WITH WEAK CENTIMETER BURSTS FROM REGION 1300 (N14W68). FOUR NEW REGIONS WERE IDENTIFIED - 1313 (N20W24), 1314 (S17E42), 1315 (N38E64), AND 1316 (S25E71). REGION 1316 (RETURNING REGION 1272) HAS SHOWN MINOR LIMB SURGES. REGION 1272 HAD 4 M-CLASS EVENTS AND NUMEROUS C-CLASS EVENTS LAST ROTATION.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. REGION 1294 HAS ROTATED OFF THE WEST LIMB BUT COULD STILL PROVIDE A PROTON EVENT. REGION 1316 SHOULD CONTRIBUTE SIGNIFICANTLY TO THE OVERALL MODERATE LEVEL OF ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. THE PROTON EVENT FOLLOWING THE X-1 FLARE OF 23/0941Z CONTINUES TO DECAY, APPROACHING EVENT THRESHOLDS. SATELLITE FLUX AT 26/2200Z FOR GREATER THAN 10 MEV WAS 15 P/CM<sup>2</sup>/SEC/STER. CONDITIONS SHOULD REMAIN ACTIVE, WITH PERIODS AT MINOR STORM LEVELS. THE EFFECTS OF A RECURRENT CORONAL HOLE SHOULD BE EVIDENT AT IAU BEGINNING 28 SEPT AND CONTINUING FOR 24 TO 36 HOURS.

III. EVENT PROBABILITIES 27 SEPTEMBER - 29 SEPTEMBER

CLASS M	30/30/30
CLASS X	20/05/05
PROTON	20/05/05
PCA	IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED	26 SEPTEMBER 148
PREDICTED	27-29 SEPTEMBER 148/146/146
90-DAY MEAN	26 SEPTEMBER 135

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	25 SEPTEMBER 26
ESTIMATED AFR/AP	26 SEPTEMBER 24/38
PREDICTED AFR/AP	27-29 SEPTEMBER 25/30 - 29/60 - 25/40
SOLTERWARN	
BT	

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ISSUED 2200Z 26 SEPTEMBER 1979

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS IN SPITE OF CONTINUED HIGH SUNSPOT NUMBER. REGION 1994 (N05W59) RETAINS A DELTA MAGNETIC CONFIGURATION WITH STEEP GRADIENT BUT EVOLUTION AND FLARE ACTIVITY HAVE SLOWED. SPOT GROWTH IN REGIONS 2006 (N17E05) AND 2017 (N17E35) HAS PRODUCED TWO CLASS E SPOT GROUPS. ALL OTHER REGIONS ARE SMALL AND OF SIMPLE STRUCTURE.

IB. FLARE ACTIVITY WILL CONSIST OF OCCASIONAL CLASS C EVENTS WITH CLASS M ACTIVITY AT LESS THAN ONE PER DAY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO SLIGHTLY ACTIVE TODAY. ACTIVE CONDITIONS TONIGHT WILL SUBSIDE TO QUIET CONDITIONS WITHIN 24 HOURS.

III. EVENT PROBABILITIES 27 SEPTEMBER - 29 SEPTEMBER

CLASS M 50/40/40

CLASS X 10/05/05

PREDICTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 SEPTEMBER 231

PREDICTED 27-29 SEPTEMBER 225/218/210

90-DAY MEAN 26 SEPTEMBER 179

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 25 SEPTEMBER 15

ESTIMATED AFR/AP 26 SEPTEMBER 15/20

PREDICTED AFR/AP 27-29 SEPTEMBER 10/15 - 07/10 - 05/07

SOLTERWARN

BT