

HFUS 1 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.
SDF NUMBER 289

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 OCTOBER 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. REGION 1351 (N30E45) HAD AN M2/1B WHICH MAXED AT 2146Z. NUMEROUS LOW TO MIDDLE C-CLASS X-RAY EVENTS HAVE OCCURRED FROM REGIONS 1346 (S20W42), 1351, AND 1348 (S21W01). OTHER UNCORRELATED C-CLASS EVENTS MAY BE ATTRIBUTED TO REGION 1332, WHICH IS APPROXIMATELY THREE DAYS BEHIND THE SOUTH WEST LIMB. REGIONS 1346 AND 1348 ARE MAGNETICALLY MODERATELY COMPLEX (BETA-GAMMA), AND 1346 MAY BE INTERACTING WITH REGION 1335 (S21W58). REGION 1351 HAS A SHAPRLY KINKED NEUTRAL LINE. NEW REGION 1354 (S18E41) IS SIMPLE.

IB. SOLAR ACTIVITY SHOULD BE MODERATE TO HIGH FOR THE NEXT 24 HOURS. REGIONS 1351, 1348, AND 1346 ARE THE MOST COMPLEX AND HAVE THE HIGHEST PROBABILITY FOR FLARE ACTIVITY. SURGE ACTIVITY AND A PROMINENCE ON THE NORTHEAST LIMB ARE ASSOCIATED WITH RETURNING REGION 1304, WHICH WAS MODERATELY ACTIVE LAST ROTATION.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. NO MAGNETIC ACTIVITY HAS RESULTED FROM THE RECENT FLARE ACTIVITY ON OCTOBER 14, 15 AND NONE IS NOW EXPECTED. THE GEOMAGNETIC FIELD SHOULD REMAIN QUIET TO UNSETLED FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 17 OCTOBER - 19 OCTOBER

| | |
|---------|----------|
| CLASS M | 70/70/70 |
| CLASS X | 30/30/30 |
| PROTON | 10/10/10 |
| PCAF | YELLOW |

IV. OTTAWA 10.7 CM FLUX

| | | |
|-----------|---------------|-------------|
| OBSERVED | 16 OCTOBER | 179 |
| PREDICTED | 17-19 OCTOBER | 178/176/174 |

90-DAY MEAN 16 OCTOBER 138

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 OCTOBER 06

ESTIMATED AFR/AP 16 OCTOBER 07/07

PREDICTED AFR/AP 17-19 OCTOBER 07/08 - 07/10 - 07/12

SOLTERWARN

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JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 OCTOBER 1979

IA. SOLAR ACTIVITY TODAY WAS MODERATE DUE TO AN M1/1B FLARE AT
1204Z FROM REGION 2045 (N28W17). THERE WERE NUMEROUS SUBFLARES
FROM REGIONS 2045, 2049 (N31E04), AND 2058 (N27E47). REGION 2049
AS WELL AS 2058 MAY NOW HAVE A DELTA MAGNETIC CONFIGURATION, BUT
THIS IS UNCONFIRMED. ONE NEW REGION 2063 (S13E67), AN H-TYPE,
WAS OBSERVED TODAY.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE. REGIONS 2045,
2049, AND 2058 ARE ALL STILL CAPABLE OF ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED TODAY AND IS EXPECTED TO
REMAIN UNSETTLED TOMORROW. MILDLY ACTIVE CONDITIONS ARE EXPECTED
ON 18 OCTOBER, RETURNING TO UNSETTLED ON 19 OCTOBER.

III. EVENT PROBABILITIES 17 OCTOBER - 19 OCTOBER

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 OCTOBER 232

PREDICTED 17-19 OCTOBER 232/232/230

90-DAY MEAN 16 OCTOBER 188

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 15 OCTOBER 06

ESTIMATED AFR/AP 16 OCTOBER 10/11

PREDICTED AFR/AP 17-19 OCTOBER 14/15 - 18/20 - 14/15

SOLTERWARN

BT