

HFUS 1 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 261

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 17 SEPTEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW WITH SMALL FLARES FROM SEVERAL
REGIONS. THE LARGEST OF THESE WAS A C3/1B FROM REGION 2675
(S12W11) AT 1820Z. THIS EVENT WAS ESPECIALLY LONG-LIVED IN
X-RAYS (63 MINUTES). REGION 2672 (S12W21) APPEARS TO BE
SYMPATHETIC WITH ACTIVITY IN 2675 MOSTLY DUE TO ITS CLOSE
PHYSICAL LOCATION. REGION 2665 (N14W49) HAS DECAYED SLIGHTLY
BUT STILL DISPLAYS AN ACTIVE FILAMENT. OTHER REGIONS THAT HAVE
SHOWN SLIGHT GROWTH ARE REGION 2680 (S31E45), REGION 2683
(S10E24) AND REGION 2684 (N19E55). EMERGING FLUX HAS BEEN
OBSERVED IN REGION 2683. ALL OTHER DISK AND LIMB FEATURES
APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY WILL CONTINUE AT PRESENT LOW LEVELS WITH
C-CLASS SUBFLARES FROM REGIONS 2675, 2672 AND 2665 LIKELY.
EMERGING FLUX REGIONS PRESENTLY ON THE DISK MAY DEVELOP BUT
ARE NOT EXPECTED TO PRODUCE SIGNIFICANT ACTIVITY DURING THE
NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS EXPECTED
TO BE UNSETTLED DURING THE NEXT 48 HOURS. ON THE THIRD DAY
OF THE FORECAST PERIOD, ACTIVE CONDITIONS ARE EXPECTED AS A
RESULT OF THE DISAPPEARING FILAMENT AT CENTRAL MERIDIAN ON THE
16TH.

III. EVENT PROBABILITIES 18 SEPTEMBER - 20 SEPTEMBER

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 SEPTEMBER 157

PREDICTED 18-20 SEPTEMBER 154/154/157

90-DAY MEAN 17 SEPTEMBER 185

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 SEPTEMBER 09

ESTIMATED AFR/AP 17 SEPTEMBER 12/12

PREDICTED AFR/AP 18-20 SEPTEMBER 10/10 - 10/10 - 17/17

SOLTERWARN

BT