JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 251 ISSUED AT 2200Z ON 08 SEP 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100Z TO 08/2100Z: SOLAR ACTIVITY CONTINUED AT A VERY LOW LEVEL. A SMALL REGION EMERGED ON THE DISK AND WAS NUMBERED AS 7579 (N09W47). RECENT YOHKOH IMAGES VERIFIED THE EXISTENCE OF A LARGE CORONAL HOLE EXTENDING FROM NEAR THE SOUTHEAST LIMB TO CENTRAL MERIDIAN NEAR N15. THIS HOLE INCREASED IN EAST-WEST EXTENT DURING THE PAST 27 DAYS. IT HAS ALSO NEARLY CONNECTED TO A LOBE OF THE NORTHERN POLAR HOLE.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE AT VERY LOW LEVELS FOR THE DURATION OF THE FORECAST PERIOD.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS FORECAST TO BE UNSETTLED FOR 09 SEP. A CORONAL HOLE RELATED DISTURBANCE IS EXPECTED TO BEGIN LATE ON 10 SEP. ACTIVE TO MINOR STORM CONDITIONS SHOULD BE EXPERIENCED ON 11 SEP. THE CONFIDENCE IN THIS FORECAST IS HIGH DUE TO THE LARGE LATITUDINAL EXTENT OF THE HOLE(S) EXPECTED TO PRODUCE THE DISTURBANCE AND THE STRONG 27 DAY RECURRENCE OF ACTIVE TO MINOR STORM CONDITIONS FROM THESE SOLAR LONGITUDES.
III. EVENT PROBABILITIES 09 SEP-11 SEP
CLASS M 01/01/01
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 08 SEP 079
PREDICTED 09 SEP-11 SEP 080/082/083
90 DAY MEAN 08 SEP 096
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 07 SEP 009/009
ESTIMATED AFR/AP 08 SEP 007/007
PREDICTED AFR/AP 09 SEP-11 SEP 010/012-010/020-018/030
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 09 SEP-11 SEP
A. MIDDLE LATITUDES
ACTIVE 10/20/35
MINOR STORM 05/10/15
MAJOR-SEVERE STORM 01/01/10
B. HIGH LATITUDES
ACTIVE 10/40/45
MINOR STORM 05/20/20
MAJOR-SEVERE STORM 01/05/10