JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
SDF NUMBER 270 ISSUED AT 2200Z ON 27 SEP 1993
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100Z TO 27/2100Z: SOLAR ACTIVITY WAS MODERATE. REGION 7590 (N11E68) ROTATED ONTO THE DISK AND PRODUCED AN M1 TENFLARE AT 27/1202Z. A BRIGHT SURGE ON THE LIMB EXTENDED TO 1.16 SOLAR RADIUS WITH THIS FLARE. REGION 7585 (S11W43) WAS THE SOURCE SITE FOR A C7/SF FLARE AT 27/0018Z. A SMALL FILAMENT LIFTED OFF MID-DISK PRIOR TO 26/2300Z.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. REGION 7590 HAS EMERGED ONTO THE DISK AND APPEARS TO BE AN F-CLASS GROUP. THERE'S A SIGNIFICANT CHANCE FOR AN X-FLARE FROM THIS REGION.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO UNSETTLED LEVELS FOR THE PAST 24 HOURS.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE. A LONG DURATION LIMB EVENT MAY CAUSE SHORT PERIODS OF MINOR STORM LEVELS AFTER 28/1800Z. A CORONAL HOLE IS EXPECTED TO DISTURB THE FIELD ON 30 SEPTEMBER.
III. EVENT PROBABILITIES 28 SEP-30 SEP
CLASS M 50/50/50
CLASS X 05/05/05
PROTON 01/01/01
PCAF GREEN
IV. PENTICTON 10.7 CM FLUX
OBSERVED 27 SEP 104
PREDICTED 28 SEP-30 SEP 105/110/115
90 DAY MEAN 27 SEP 093
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 26 SEP 010/010
ESTIMATED AFR/AP 27 SEP 009/009
PREDICTED AFR/AP 28 SEP-30 SEP 015/015-015/018-025/025
VI. GEOMAGNETIC ACTIVITY PROBABILITIES 28 SEP-30 SEP
A. MIDDLE LATITUDES
ACTIVE 30/30/35
MINOR STORM 15/15/25
MAJOR-SEVERE STORM 05/05/10
B. HIGH LATITUDES
ACTIVE 25/30/30
MINOR STORM 20/15/30
MAJOR-SEVERE STORM 10/05/15