

## Analyzed Report 9

The sudden enhancement in solar activity in February 1986 was accompanied by strong disturbances in the Earth's ionosphere, SIDs and ionospheric storm. The flares in both active regions were associated with enhancement of solar high energy proton flux which started on 4 February of 0900 UT. Associated with the flares, the magnetic storm with sudden commencement had its onset on 6 February 1312 UT and attained its maximum on 8 February ( $K_p = 9$ ). Two proton flares were observed during this period. Two active regions appeared on the solar disc. These events and their effects on the ionosphere are discussed.

