

**Name:** APENOR208V01**Description:**

Earth station transmitting antenna pattern for analyses under Appendix 30B for the BIFROST terminal type II transmitting antenna.

**Type:** Earth station, Transmitting**Required Input Parameters:**

gain,bmwidth

**Validation Warnings/Errors:**

Type	Message
Warning	Phi0 () is out of limits [0.1:10.0].

**Pattern Information:**

Based on a pattern submitted by NOR administration for the BIFROST terminal type II transmitting earth antenna (1m antenna, antenna efficiency is 0.7) in 1995.

The pattern requires input parameter beamwidth.

**Co-Polar Component:**

$$G = G_{\max} \quad \text{for } 0 \leq (\varphi/\varphi_0) \leq 0.25$$

$$G = G_{\max} - 12 (\varphi/\varphi_0)^2 \quad \text{for } 0.25 < (\varphi/\varphi_0) \leq 1.0363$$

$$G = G_{\max} - 12.5 - 25 \log (\varphi/\varphi_0) \quad \text{for } 1.0363 < (\varphi/\varphi_0)$$

$$\text{If } G < G_{\max} - 42: G = G_{\max} - 42$$