

**Name:** APENOR207V01**Description:****Type:** Earth station, Transmitting

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

**Required Input Parameters:** None**Validation Warnings/Errors:** None**Pattern Information:**

Based on a pattern submitted by NOR administration for the BIFROST terminal type I transmitting earth antenna (3m antenna, antenna efficiency is 0.7) in 1995.  
Maximum antenna gain is fixed to 50.7 dB.

**Co-Polar Component:**

$$G = 50.7 - 42.3 \varphi^2 \quad \text{for} \quad 0^\circ \leq \varphi < 0.634^\circ$$

$$G = 33.7 \quad \text{for} \quad 0.634^\circ \leq \varphi < 0.649^\circ$$

$$G = 29 - 25 \log \varphi \quad \text{for} \quad 0.649^\circ \leq \varphi < 48^\circ$$

$$G = -10 \quad \text{for} \quad 48^\circ \leq \varphi \leq 180^\circ$$