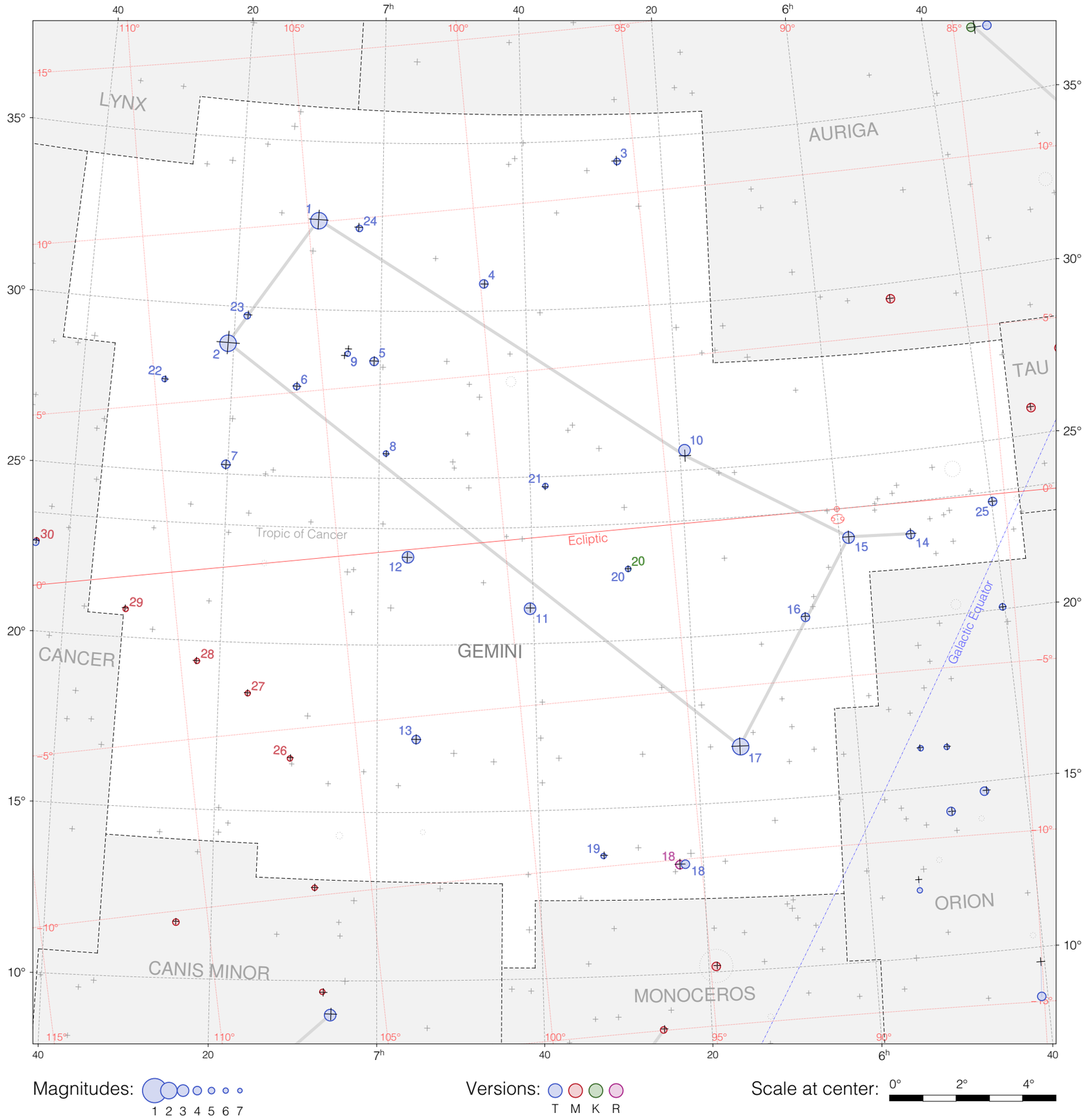Tycho stars in Gemini