GREENWICH MERIDIAN

$\theta = 0$
$\varphi \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$

$N = (0, 0, 1)$

DATE LINE

$\theta = \pi$
$\varphi \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$

O

EQUATOR LINE

$\varphi = 0$
$\theta \in (-\pi, \pi)$

$S = (0, 0, -1)$