1991-2020 (ERA5) Top of Atmosphere - Incoming (a) 90°N -60°N 30°N 0° 30°S 60°S 90°S == 180° 120°W 120°E 180° Surface - Downwelling (b) 30°N 0° 30°S 60°S 90°S 60°W 120°W 60°E 120°E 180° 0°W 180° Surface - Upwelling (c) 60°N 30°N 0° 30°S 60°S 120°W 60°W 60°E 120°E 180° Top of Atmosphere - Outgoing (d) 90°N 60°N 30°N 0° 30°S 60°S 90°S == 180° 120°W 60°W 60°E 120°E 180° 0 50 100 150 200 250 300 350 400 Annual-mean Solar Radiation (Wm<sup>-2</sup>)