$g C m^{-2} yr^{-1}$ mW m⁻² sr⁻¹ nm¹, annual mean 3000 1.6 1.5 2800 2600 1.3 60° N 2400 1.2 2200 1.1 2000 1800 30° N -30° N -0.9 1600 0.8 1400 0.7 1200 0° **-**0° **-**0.6 1000 0.5 800 0.4 600 0.3 30° S -30° S -400 0.2 200 60° S **¬** 180° W 60° S **¬** 180° W 60° W 60° E 120° E 60° W 120° W 120° W 60° E 120° E 180° E 0° 180° E 0° GPP: P-model GPP: P-model g C m⁻² yr⁻¹ FULL, MODIS FPAR g C m⁻² yr⁻¹ FULL, fAPAR3g 3000 3000 2800 2800 2600 2600 2400 2400 2200 2200 2000 2000 1800 1800 30° N -30° N -1600 1600 1400 1400 1200 1200 0° **-**0° **-**1000 1000 800 800 600 600 30° S **-**30° S -400 400 200 200

60° S ¬ 180° W

120° W

60° W

60° E

0°

120° E

180° E

GPP: Mean of other models

SiF: Mean of GOME-2a and GOME-2b

60° S **¬** 180° W

60° W

120° W

60° E

120° E

180° E