

Fig. S8. Pigment distribution and energy transfer pathway.

- (A) Distances of pigments in an APC or PC trimer. The pigments are isolated from APC or PC trimer crystal structures.
- **(B)** Estimated distances of pigments in the Rb rod. Only the distances of central pigments are labeled.
- (C) Estimated distances of pigments in core B, core A1, and between core B and core A1.
- (D) A map showing the estimated distances of pigments between rods and the core as in Fig.
- **5B**. Please be noted that the relative relationships among the numbers are more biologically significant than their absolute values.
- (E) Energy transfer pathway from PBS to PSII. Terminal emitter from A1-3 is close to chlorophylls from CP43. Nearest distances are indicated by dashed lines and labelled (from left to right, these chlorophylls #35. #38, #36 from CP43, as reported in previous publication⁵. The unit of the estimated distances is in Å.