

Underwater annular irradiance: New concept to measure the light diffuse attenuation coefficient through the KduSTICK, a Do-It-Yourself device

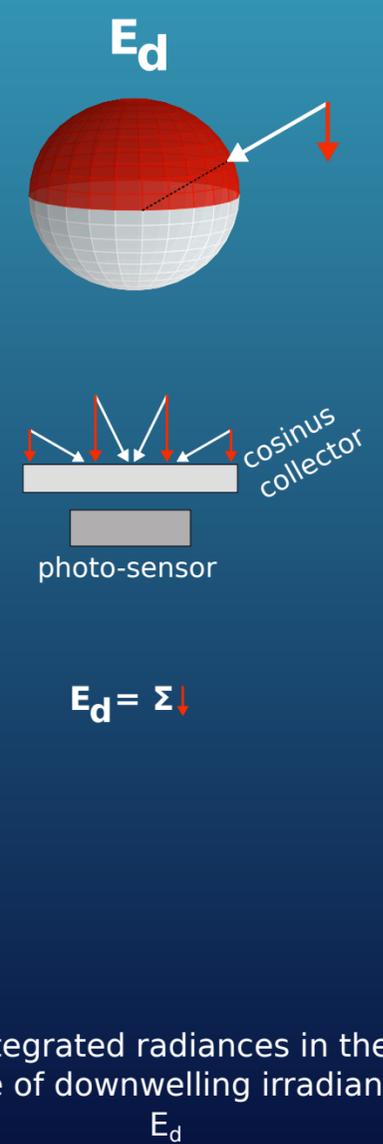
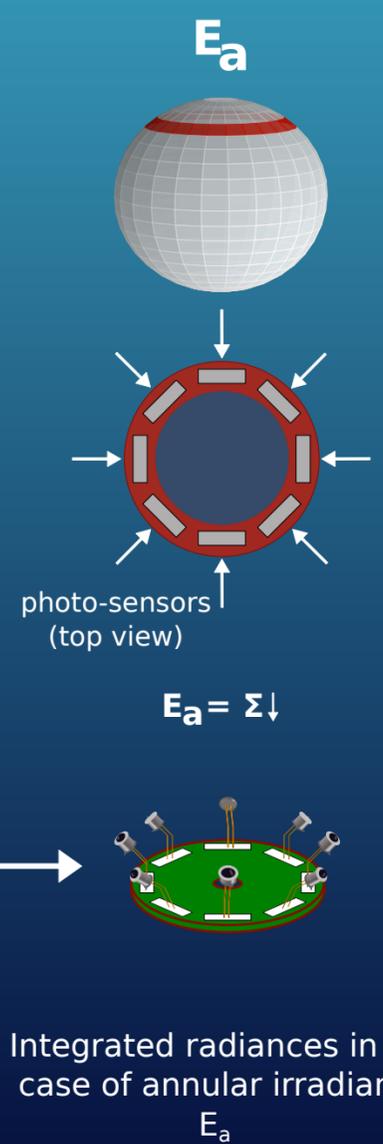


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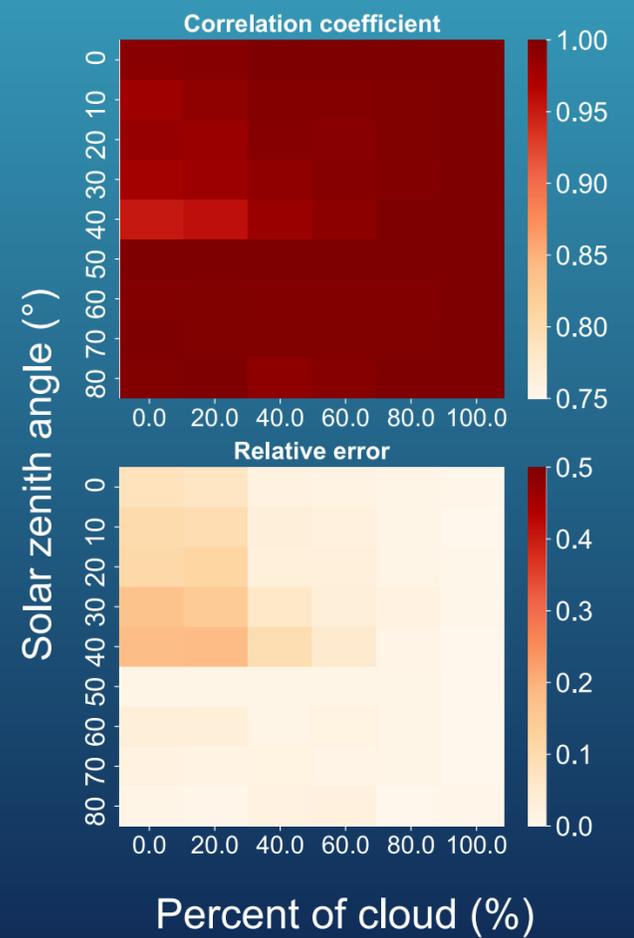
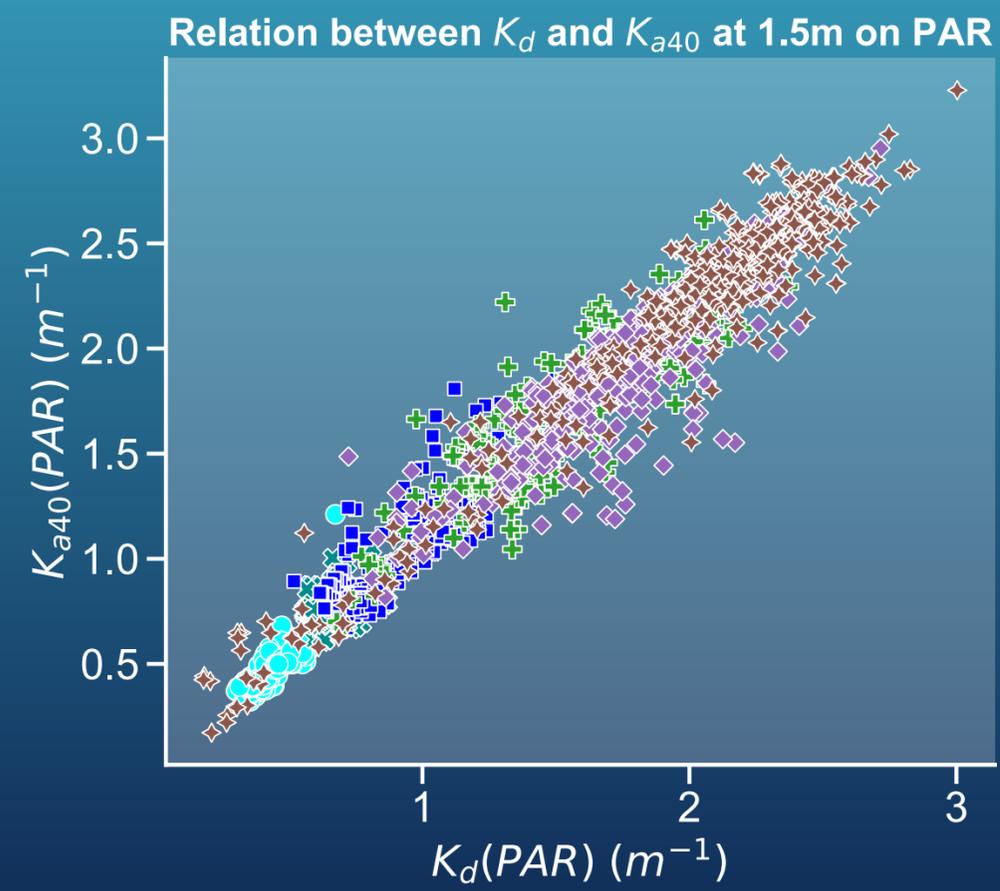
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One parameter to estimate water transparency is the light diffuse attenuation coefficient (K_d)
 It is of particular interest in water quality monitoring programs.

Annular irradiance vs downwelling irradiance



Relation between K_d and K_{a40}



Conclusions

- Large correlation between K_d and K_{a40} in different water types
- The relationship between K_d and K_{a40} is robust when the light conditions change
- We can derive empirical functions to estimate K_d from K_{a40}