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*Supplement of*

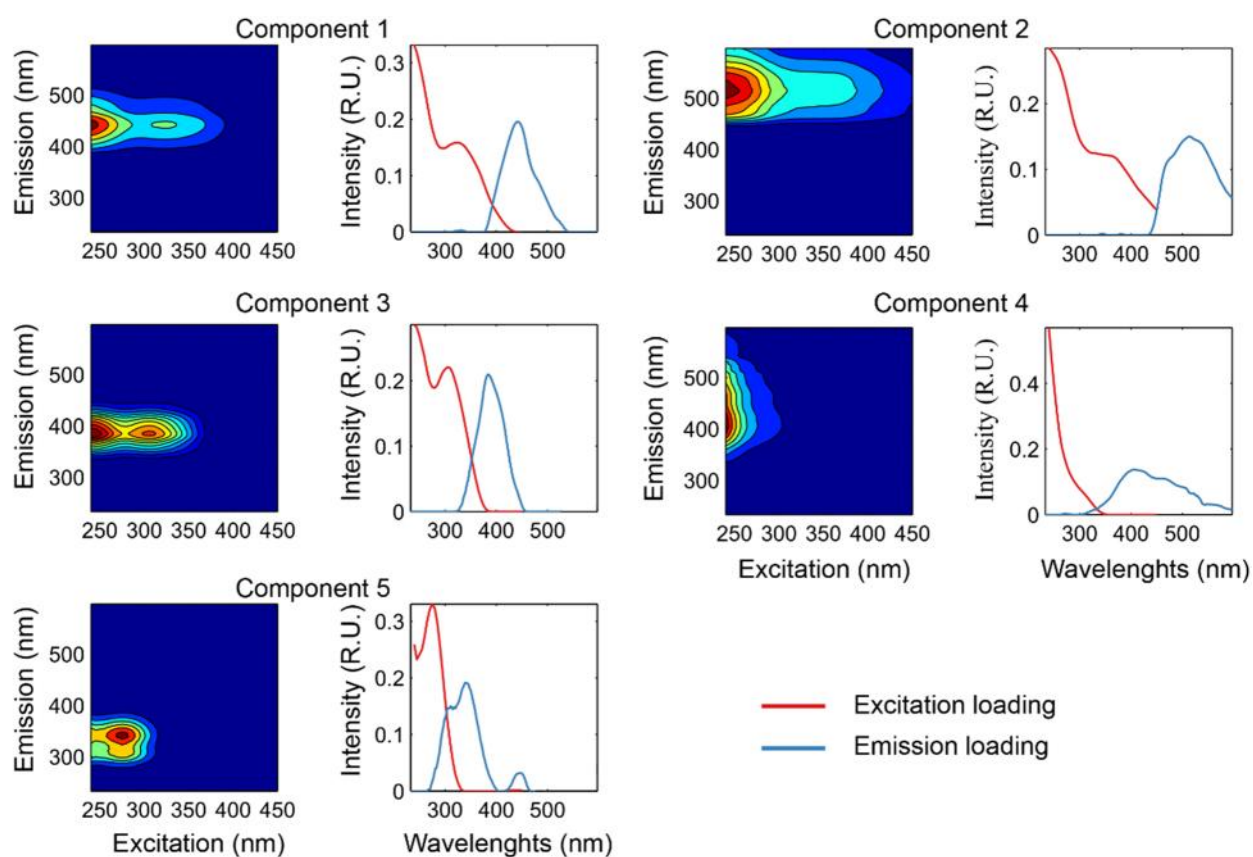
## **Along-stream transport and transformation of dissolved organic matter in a large tropical river**

**Thibault Lambert et al.**

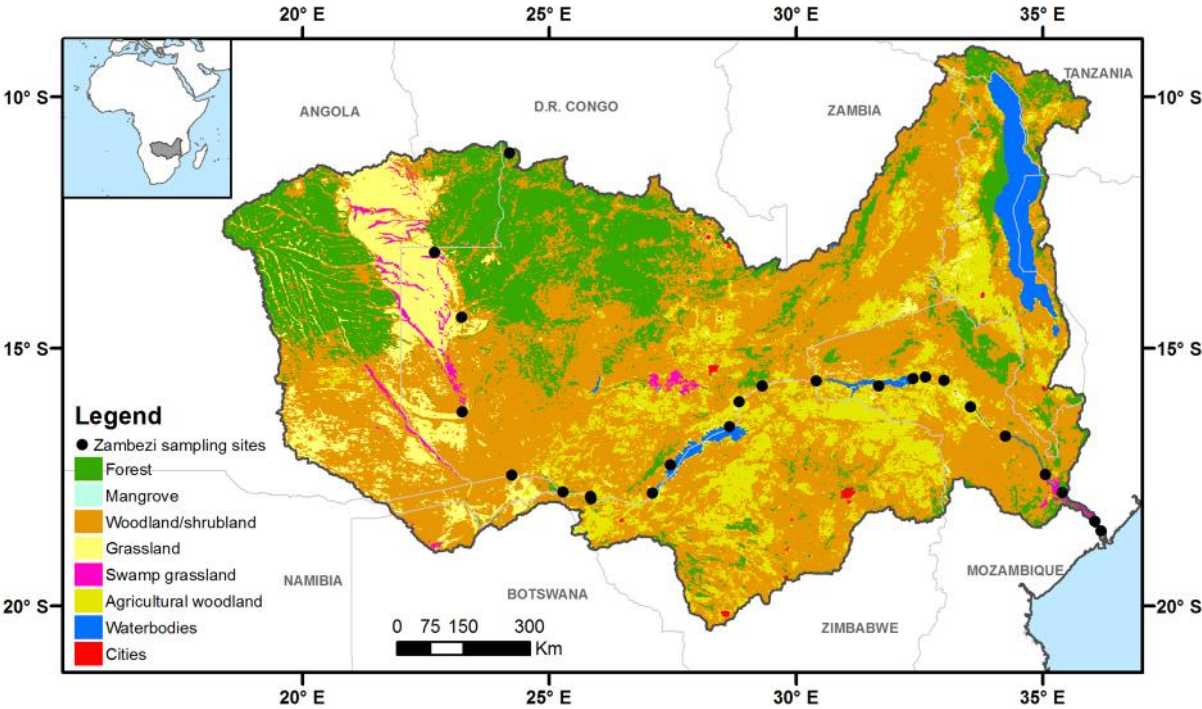
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Supplementary Figure 1 – Spectral properties of the five fluorophores identified by the parallel factor analysis (PARAFAC). Line plots represent emission (blue lines) and excitation (red lines) loadings for each components. Color scale indicates the fluorescence intensity varying from low (blue) to high (red) in Raman's units.



Supplementary Figure 2 – Land cover map of the Zambezi Basin (data from Mayaux et al. 2004).



Supplementary Figure 3 – Map of the estimated variability of the  $\delta^{13}\text{C}$  signatures of  $\text{C}_3$  plants in the Zambezi river basin based on the relationship between  $\delta^{13}\text{C}_{\text{C}_3\text{-plants}}$ , mean annual precipitation (MAP), altitude and latitude (Kohn, 2010). MAP was extracted from global maps of interpolated climate surfaces (Hijmans et al., 2005), and altitude was extracted from Hydrological data and maps based on SHuttle Elevation Derivatives at multiple Scales (HydroSHEDS). Calculation were performed in the geographical information system ArcGIS.

