(c) Open Water (a) Downwelling Irradiance **(b)** Hyperspectral Data Cube 0.04 Downwelling Irradiance 0.03 Reflectance OO OO 0.01 400 500 600 700 800 900 1000 0.00 λ (nm) 700 400 500 600 1000 λ (nm) **(f)** Dry Grass (d) Rhodamine Dye Plume (e) Chlorophyll A in Algae 0.10 0.3 0.06 Reflectance O 6 Reflectance o o s 0.02 0.1 0.00 0.0 0.00 600 700 800 1000 400 500 600 700 800 900 1000 400 500 600 700 800 900 1000 λ (nm) λ (nm) λ (nm)