

**S1 Fig. Complete dissolved O<sub>2</sub> profile for station 116, from surface to 860 m. Seabed depth: 862–868 m. The most O<sub>2</sub>-depleted hypoxic core of Benguela is located from 170–340 m depths, where O<sub>2</sub> concentration ranged from 20 to 25 μM.**

