Some Features of Turner Fluorometry in the Knysna Estuary

Brian Allanson and Inga Chinnery

Knysna Basin Project Field laboratory, Rhodes University, Knysna estuary@mweb.co.za

Acknowledgements

- Our thanks are due to:
 - Barloworld
 - Rhodes University
 - Marine remote sensing unit
 - SANhydro tides Tokai, Cape Town
 - MRSU 2012
 - Joclyn Fearon

Figure 1. Marine Embayment, Knysna estuary



Figure 2. Turner submersible fluorometer: left hand downloading data mode; right had submersible mode with battery pack in place.





Figure 3a Knysna Estuary: Neap tide 14 – 17 Feb.2012

Water temperature °C



Figure 3b Chlorophyll a µg/l



Figure 3c Turbidity in NTU units



Figure 4a. Stn 2 Ashmead Channel Spring Tide, 7 – 13 .03. 12 Temperature °C



Figure 4b.Stn 2 Ashmead Channel Spring tide, 7 – 13.03.12 Chlorophyll *a* μg/l



Figure 4c. Stn 2 Ashmead Channel Turbidity as NTU, 7 – 13.03.12



Turbidity

Figure 5. Sea surface temperature (left) Chlorophyll a (right):15.01.12 Knysna marked by a black dot at 23° S



Figure 6. SST (left) and Chla (right) 08.03 2012. Knysna lies at 23° South

References

Allanson & Reed 1995;Aminot & Rey 2000;Cloern & Jassby 2110;Grange & Allanson 1995;Litaker et al. 1987;Lucas 1986: MRSU 2012;Muir & Perissinotto 2011; Roegner & Shanks2001;Smith (2008)Kotsedi et al. 2012;Snow& Adams 2005;Trner Designs 2012;Vorwerk et al.2008.