

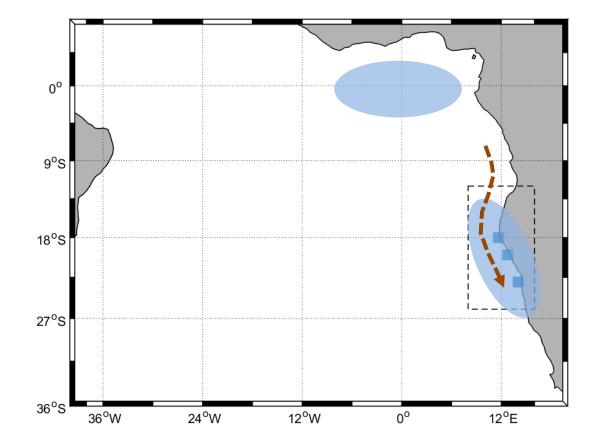
Wave propagation characteristics along the south-west African shelf as revealed by mooring observations

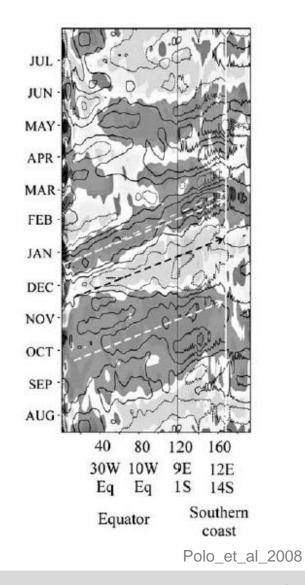
Tim Junker // Volker Mohrholz // Lydia Siegfried

Martin Schmidt // Anja van der Plaas

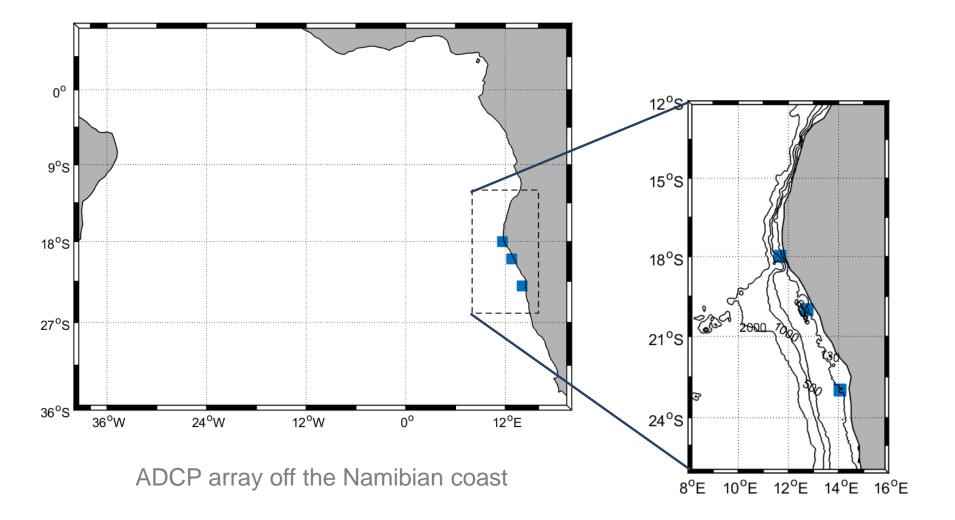
TAV-PREFACE-Meeting, Paris, 28/11/2016



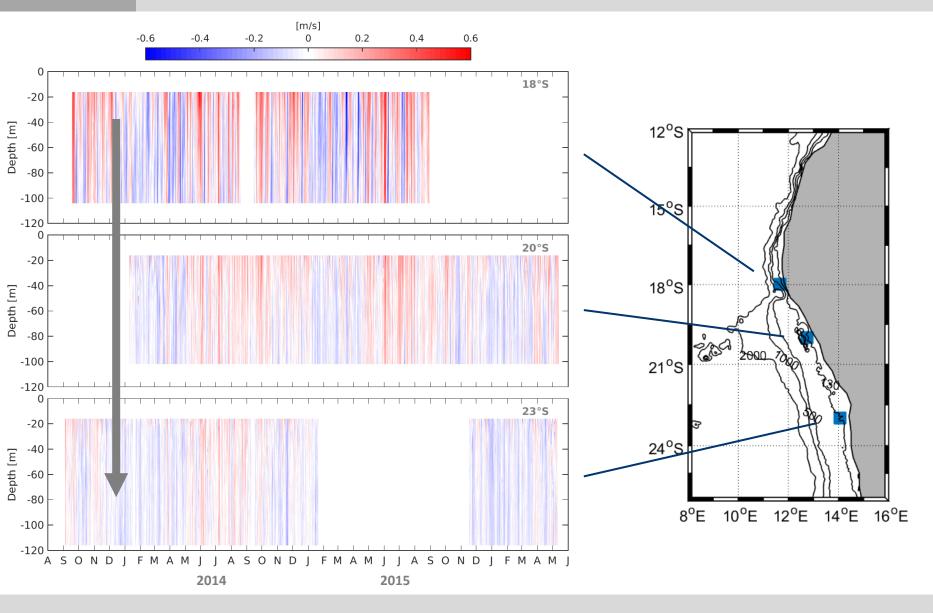




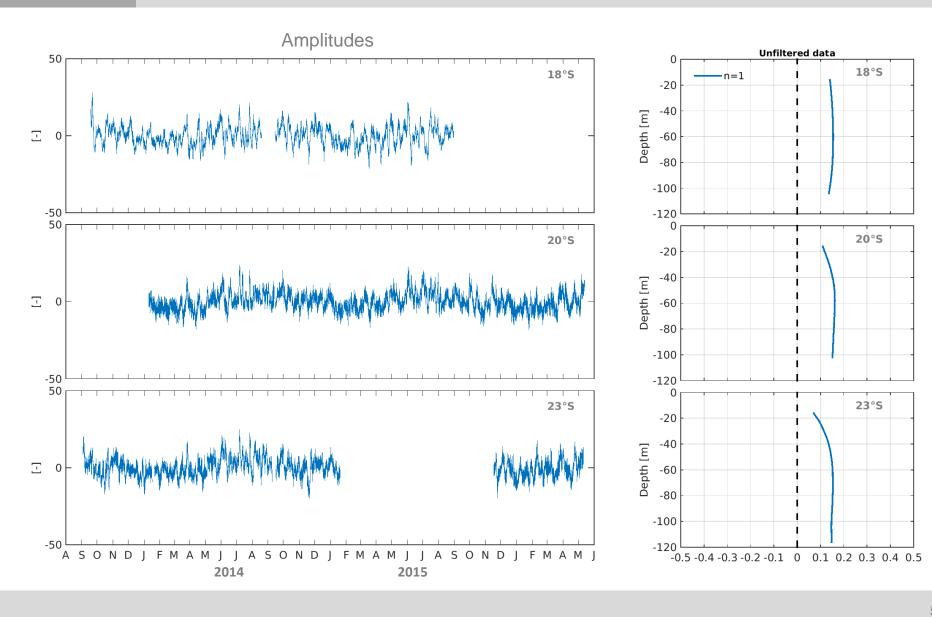




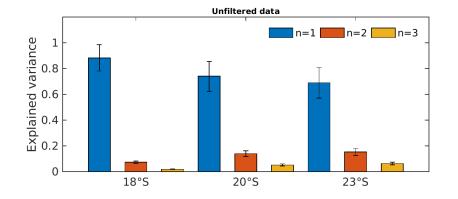


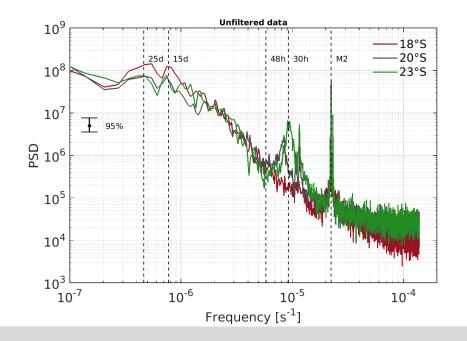


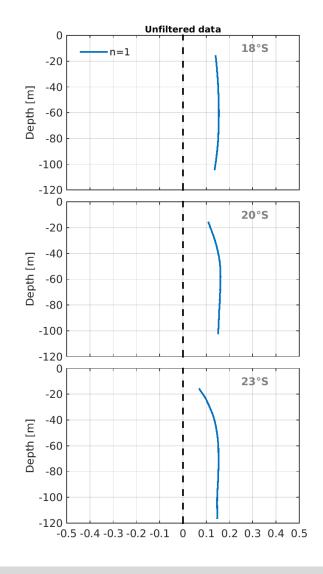
LEIBNIZ-INSTITUT FÖR OSTSEEFORSCHUNG WARNEMÜNDE



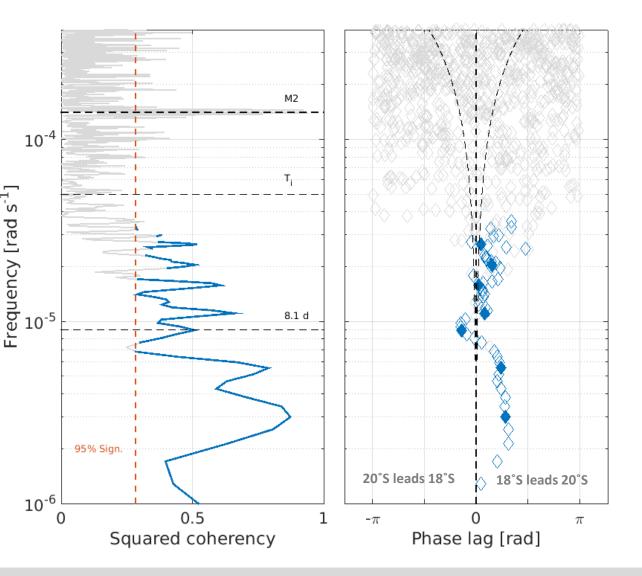




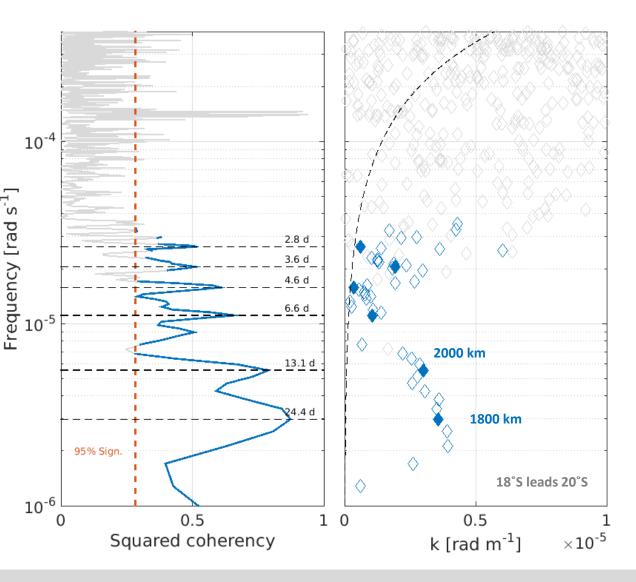


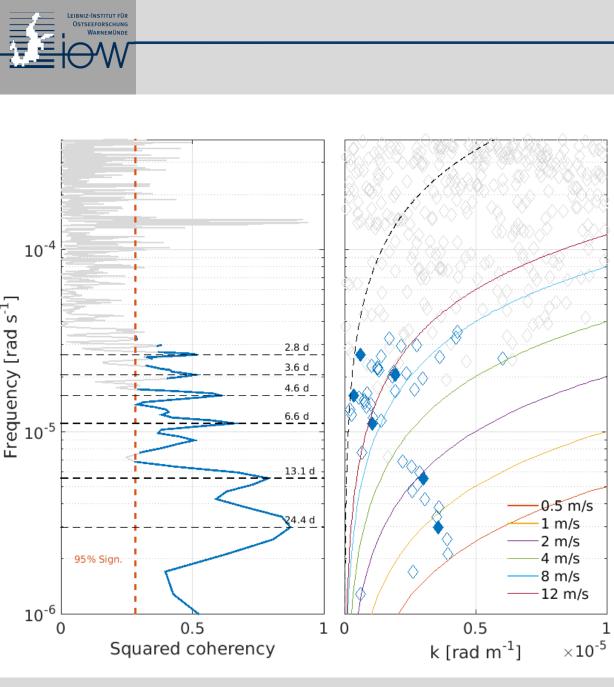












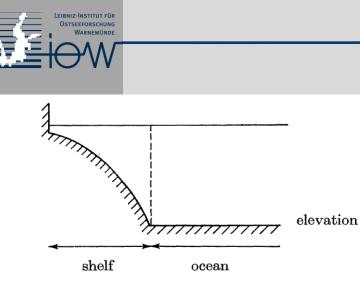
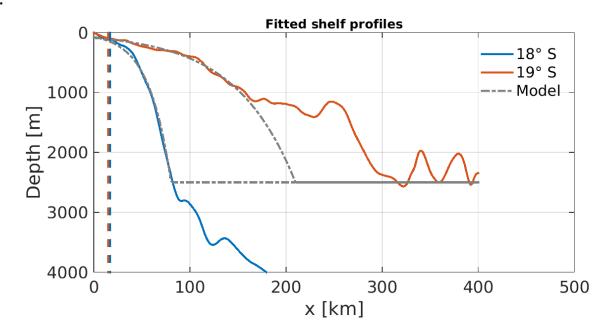
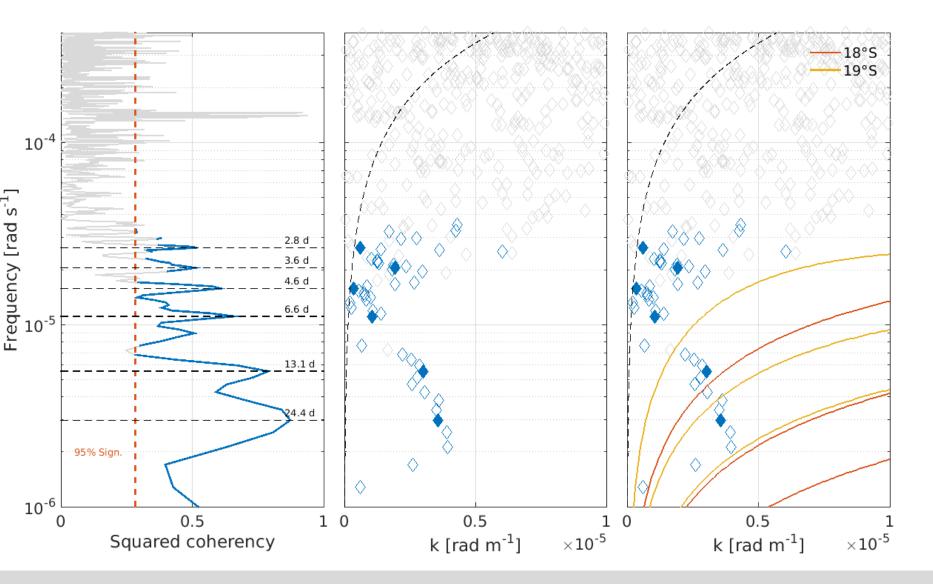


FIGURE 1. Shelf model in plan and elevation.







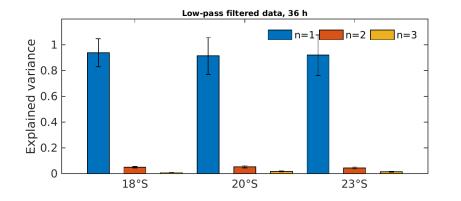


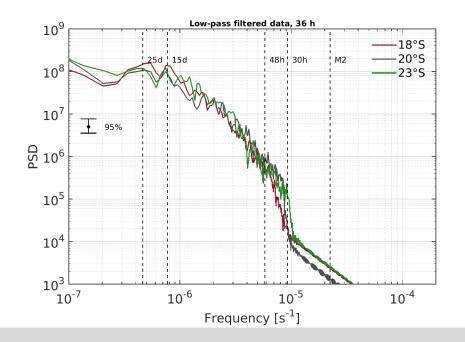


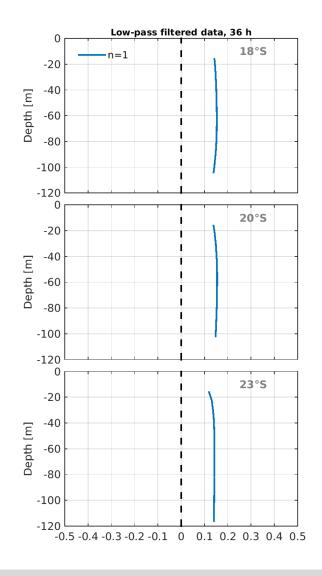
- Concurrent ADCP data from a mooring array along the Namibian shelf investigated
- Meridional current component dominated by a "barotropic" mode explaining more than 70 % of the total variance
- Wave patterns with dominant periods of ~13 d and ~24 d, wave length ~1800 km and phase speed 0.5 - 4 m/s identified
- These signals correspond most likely to 1st and 2nd mode of CSW

Thank you for your attention !

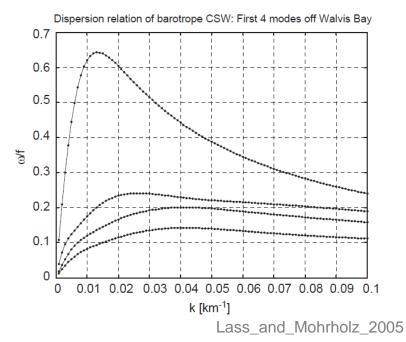












<u>Tab. 3:</u> Abschätzungen von charakteristischen Perioden (d), Wellenlängen (km) und Phasengeschwindigkeiten (km d⁼¹) freier CSW mit c_g = 0 bei exponentieller Approximation des Schelfprofils

	Peru	(15,0	s)	Oregon (44,8 ⁰ N)			NWA (21,5 ⁰ N)			SWA	SWA (21,5° S)			
n	то	λ ⁰	c ^o	то	λ ⁰	c ^o	то	ړ٥	c ^o	то	20	C ^O		
1	2,7	102	38	1,0	213	213	1,9	321	169	1,9	820	432		
Ż	4,3	64	15	1,6	135	84	3,0	203.	68	3,0	519	173		
3	6,1	46	8	2,2	95	43	4,3	143	33	4,3	367	85		
4	7,9	35	4	2,9	73	25	5,6	110	20	5,6	281	50		

Hagen_1979