

# Geochemical proxy calibration along the Indonesian Throughflow (ITF) pathway.

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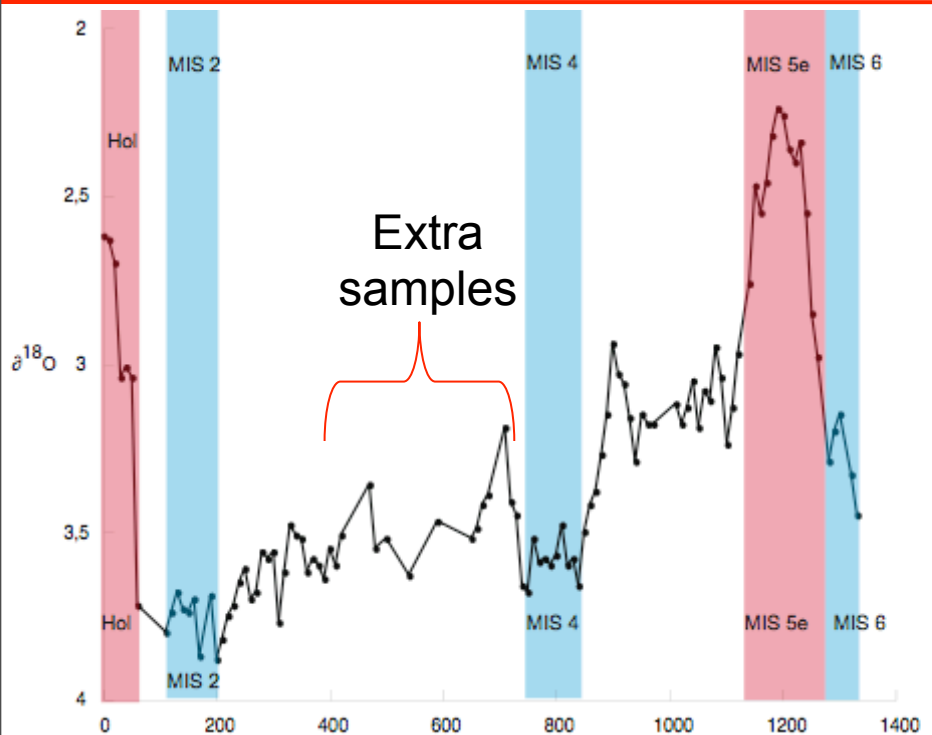
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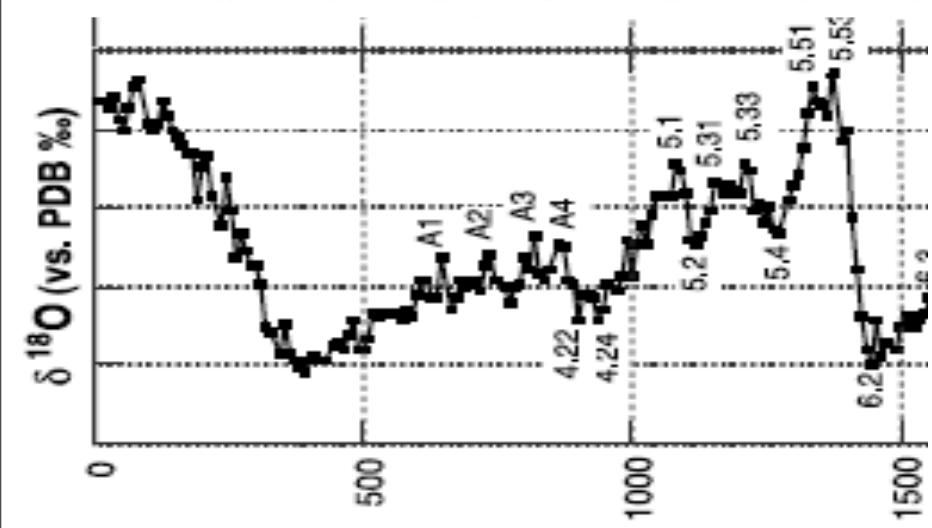




$\delta^{18}O$  values range between 2.24 - 3.88 ‰.

SO18471-2 water depth: 485 m

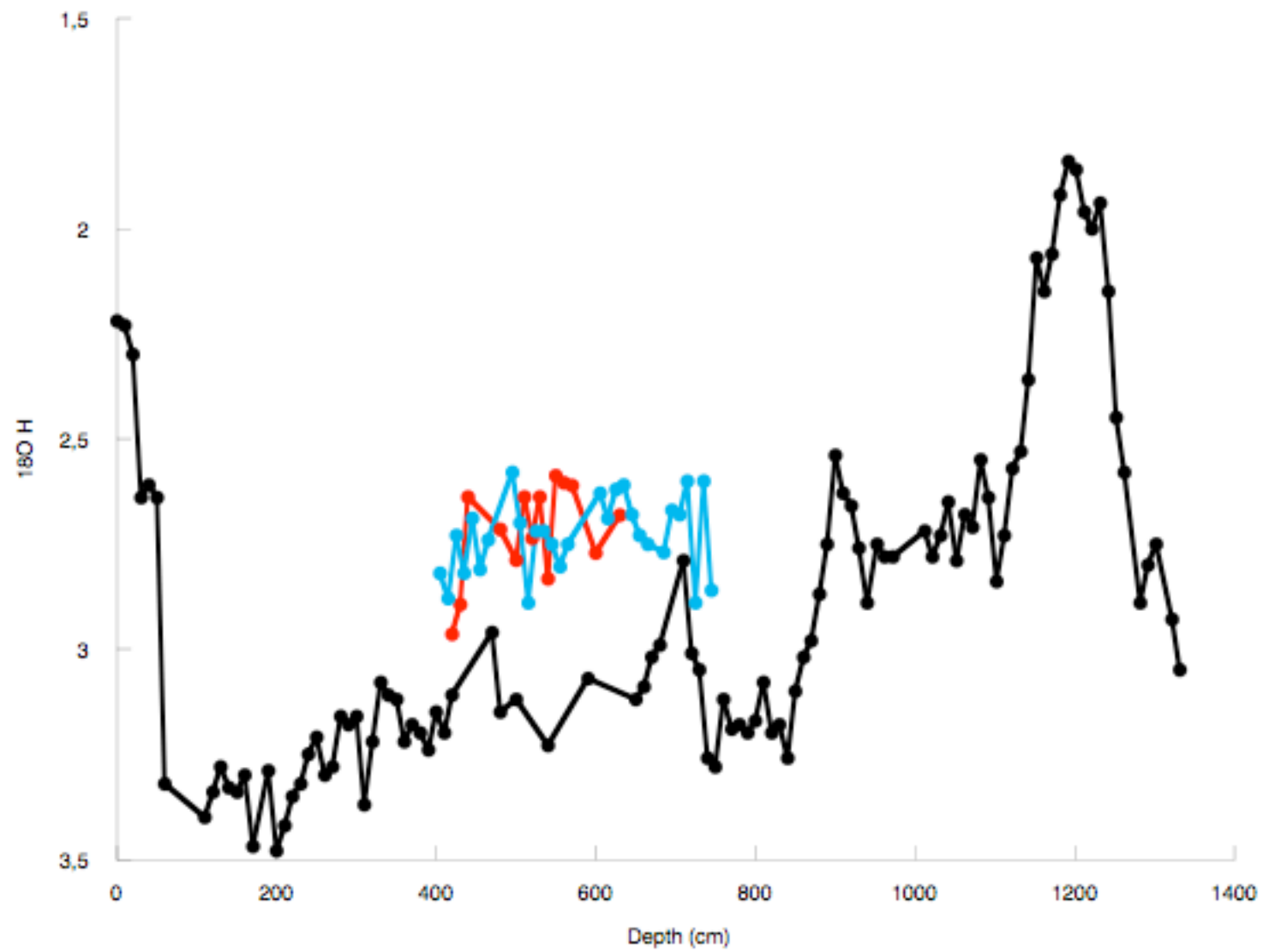
SO18471-2 location:  
129°58.983'E/9°21.987'S

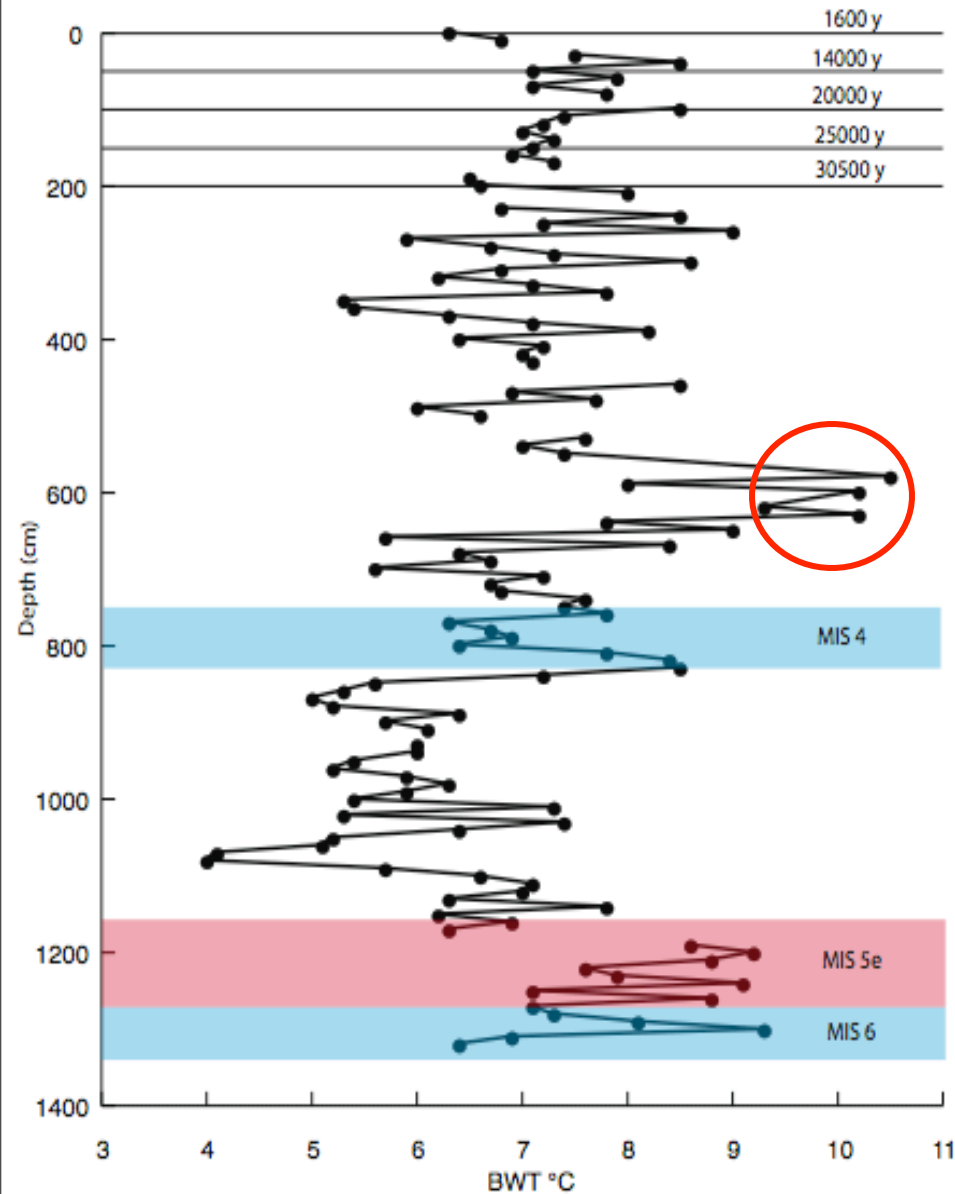


MD01-2378 water depth: 1783 m

MD01-2378 location:  
121°47.27'E/13°04.95'S  
northwestern margin of the Scott Plateau in the Timor Sea.

(Holbourn *et al.*, 2005)





WorldOceanAtlas (129,5°E/8,5°N)	Surface T [°C]	400m T [°C]	500m T [°C]
Sep.05	28,91	8,00	7,27
Oct 2005	29,28	8,35	7,20
Season incl Sept 05	29	7,98	7,17
Season incl Oct 2005	29,05	7,85	7,12
Annual	28,84	7,86	7,11

Core water depth: 485 m

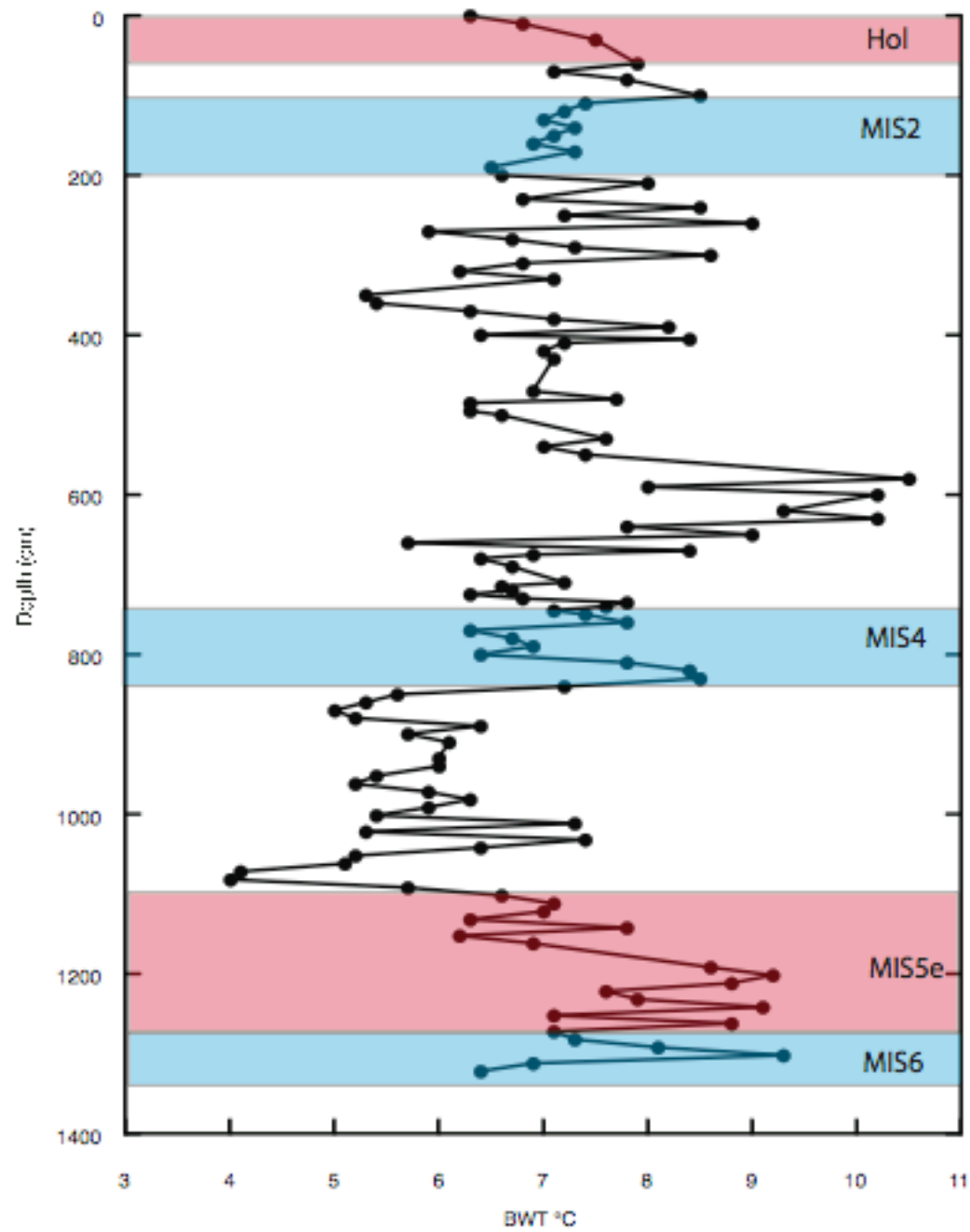
Core location:

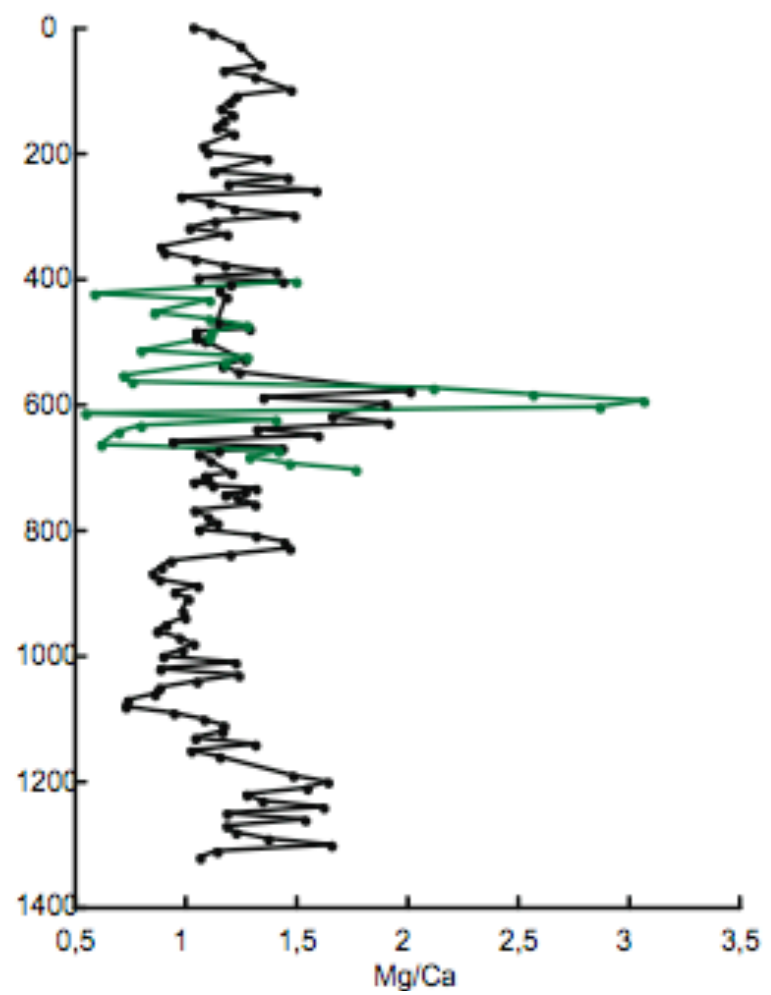
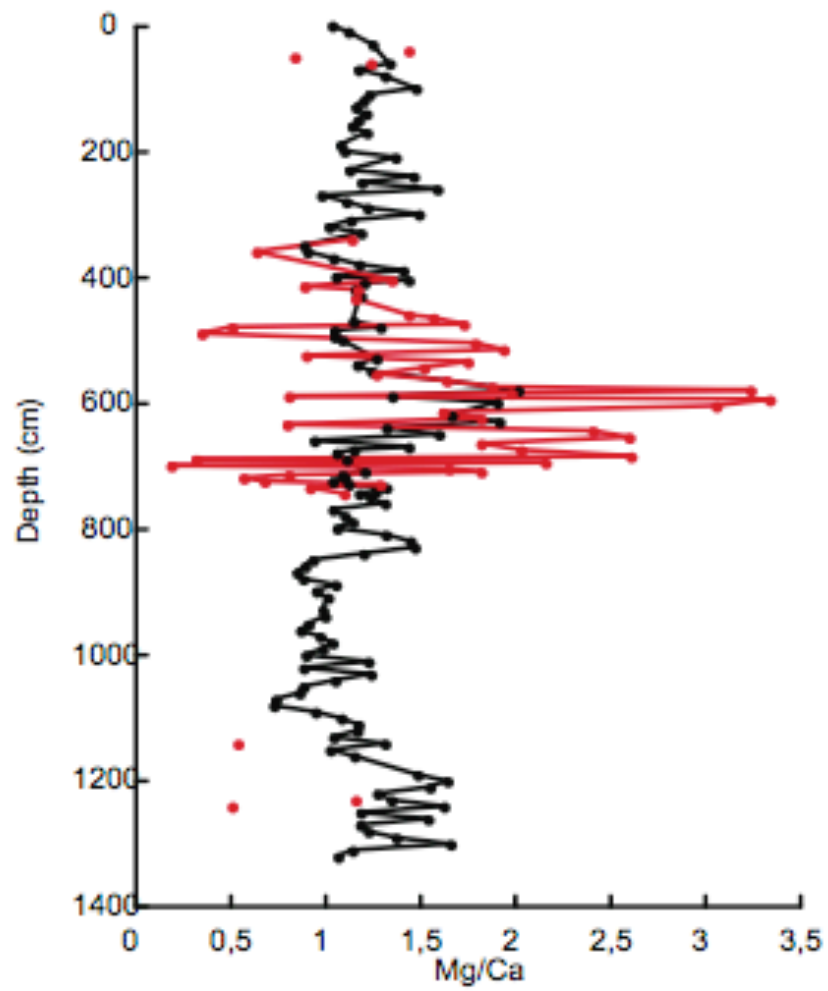
129°58.983'E/9°21.987'S

BWT range: 4°C - 10.5°C

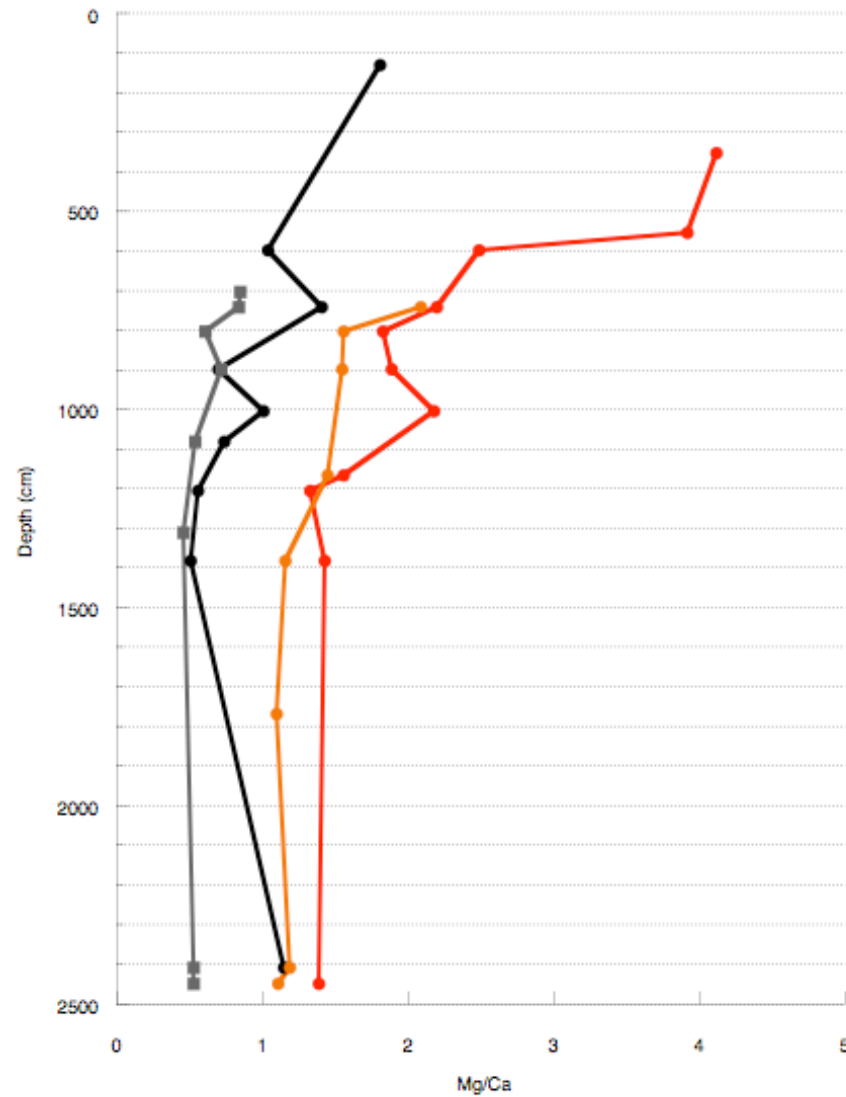
$BWT = \text{LN}[(\text{Mg}/\text{Ca})/0.3894]/0.1564$

(Fhlaithearta *et al.*, 2010)





## New Regional Calibration



Sample	VN 1	VN 2	VN 3	VN 4	VN 5	VN 6	VN 7	VN 8	VN 9	VN 10	VN 13
Agglutinated taxa	R	R	R	R	F				F	R	C
Amphistegina spp.	A	A	A	A	A				A	A	A
Anomalinoidea sp.	R								R	F	R
Cibicides spp.	F	F		F	C				C	C	F
Elphidium spp.	F	F	R	R	F				C	C	R
Hoeglundina elegans				R	R						R
Hyalinea balthica		R	R	R	R					R	
Lenticulina spp.	R										
Miliolids	R			R	R				F	C	F
Operculina spp.		C	F						C	C	F
% Planktonic/Benthic foraminifera	2%								4%	11%	<1%
Foraminiferal abundance in washed residual	F	F	F	F	F	B	B	B	C	F	F
Preservation	P	P	P	P	P	B	B	B	M	P	P

Table 1. Benthic Foraminiferal Assemblages in TF 57. Key: A= abundant, C=common, F=frequent, R=rare; B=barren, P=poor, M=moderate.



