

CONTENTS

Title Page	i
Dedication Page	ii
Certificate of Approval	iii
Certificate by the Supervisor	iv
Declaration	v
Acknowledgements	vi
List of symbols	vii-viii
Abstract	ix
Contents	x-xiv
Chapter 1 Introduction	1-9
1.1 Paleoclimate and proxy records	1
1.2 Aims and Objectives	4
1.3 Previous studies	5
Chapter 2 Location and Oceanographic settings	11-18
2.1 Physiography of the Arabian Sea	11
2.2 Present climate of Arabian Sea	14
2.3 Deep and surface ocean currents	15
2.4 Sedimentation in the Arabian Sea	18
Chapter 3 Materials and Methods	19-23
3.1 Sample processing	19
3.2 Sample Analysis	20
3.3 Total organic carbon analysis	20
3.3.1 Working Principle	20
3.3.2 Standardization of Analyzer	21
3.3.3 Preparation of sample	21
3.4 Faunal Analysis	21
3.4.1 Species Diversity Calculation	21
3.4.2 Multivariate Analysis	22

3.4.3	Time Series Analysis	23
Chapter 4	Taxonomy and Systematics	25-48
Chapter 5	Results	49-100
5.1	Benthic foraminiferal fauna at Hole 724B	49
5.2	Benthic foraminiferal fauna at Hole 725C	59
5.3	Benthic foraminiferal fauna at Hole 727B	75
5.4	Record of <i>G. bulloides</i> from ODP Holes 724B, 725C and 727B	95
5.5	Total Organic Carbon from Hole 724B	97
5.6	Spectral Frequency analysis of <i>G. bulloides</i>	99
Chapter 6	Discussion	101-115
6.1	Southwest Monsoon intensity and paleoproductivity as documented in benthic foraminifera from the northwestern Arabian Sea	103
6.2	Southwest monsoon history as documented in the <i>Globigerina bulloides</i> proxy record from the northwest Arabian Sea	110
Chapter 7	Conclusions	117-119
	References	121-140
	Plates	141-183
	Curriculum Vitae	185