

TABLE OF CONTENTS

PREFACE

INTRODUCTION

SECTION 1: The Scientific Method 1

Lab 1: Scientific Knowledge	1
Lab 2: Statistics	5
Lab 3: Natural Resources	11
Lab 4: Biological Sampling	15

SECTION 2: Physical Forces 21

Lab 5: Tides	21
Lab 6: Barrier Islands	27
Lab 7: Water Quality Monitoring	33
Lab 8: Osmoregulation	39

SECTION 3: Plant Communities 45

Lab 9: Mangroves	45
Lab 10: Sea Grass Communities	51

SECTION 4: Animal Communities 57

Lab 11: Plankton Sampling	57
Lab 12: Oyster Reef Communities	61
Lab 13: Mudflat and Sandflat Communities	65
Lab 14: Estimating Population Size	69
Lab 15: Animal Movements	73
Lab 16: Fisheries	77
Lab 17: Marine Mammals	83

SECTION 5: Management of Marine Ecology 89

Lab 18: Habitat Restoration	89
Lab 19: Biomonitoring	93
Lab 20: Endangered Species	97
Lab 21: Coastal Decision Making	103

APPENDIX 107

GLOSSARY 123