





CONTENTS

Foreword by L. J. V. Compagno	ix
Preface	xi
Acknowledgments	xiii
INTRODUCTION	1
Early Studies of California Sharks	2
California's Marine Environment	5
Classification of Cartilaginous Fishes	8
What Are Cartilaginous Fishes?	9
Distribution	13
General Biology	16
Fisheries	34
Injuries from Cartilaginous Fishes	36
How to Use This Book	42
Key to Chondrichthyan Orders Found in California Waters	48
SPECIES ACCOUNTS	49
 Cow and Filled Sharks (Hexanchiformes)	50
 Dogfish Sharks (Squaliformes)	59
 Angel Sharks (Squatiniiformes)	76
 Horn Sharks (Heterodontiformes)	81

	Carpet Sharks (Orectolobiformes)	87
	Mackerel Sharks (Lamniformes)	92
	Ground Sharks (Carcharhiniformes)	125
	Rays (Rajiformes)	180
	Chimaeras (Chimaeriformes)	237
	Egg Cases	244
	Checklist of California Chondrichthyans	247
	Glossary	251
	Museums and Research Institutions	257
	References	259
	Index	275