

CONTENTS

Preface	F. A. Pitelka	v
Gull Research in the 1980s: Symposium Overview	W. E. Southern	1
LIFE HISTORY STRATEGY		
Constraints on Clutch Size in the Glaucous-winged Gull	W. V. Reid	8
Sex Ratio Skew and Breeding Patterns of Gulls: Demographic and Toxi- cological Considerations	D. M. Fry, C. K. Toone, S. M. Speich, and R. J. Peard	26
Survivorship and Mortality Factors in a Population of Western Gulls	L. B. Spear, T. M. Penniman, J. F. Penniman, H. R. Carter and D. G. Ainley	44
Effects of Increased Population Size in Herring Gulls on Breeding Suc- cess and Other Parameters	A. L. Spaans, A. A. N. de Wit, and M. A. van Vlaardingen	57
*Selective Factors Affecting Clutch Size in the Western Gull on the Farallon Islands, California	M. C. Coulter	66
*A Comparison of Some Adaptations of Herring and Ring-billed Gull Chicks to Their Natal Environment	L. M. Uin	67
BEHAVIOR		
Time-partitioning of Clutch and Brood Care Activities in Herring Gulls: A Measure of Parental Quality?	R. D. Morris	68
Do Adult Gulls Recognize Their Own Young: An Experimental Test	J. G. Galusha and R. L. Carter	75
*A Simulation Model of Flock Formation in Ring-billed Gulls	R. M. Evans	80
*Spatial and Temporal Aspects of Franklin's Gull Flocks	J. G. Kopachena	81
*Neighbor Interactions and Cooperation among Breeding Herring Gulls: An Alternative Interpretation of Gull Territoriality	G. W. Shugart and M. A. Fitch	82
FORAGING		
Foraging Efficiency in Gulls: A Congeneric Comparison of Age Differ- ences in Efficiency and Age of Maturity	J. Burger	83
Foraging Patterns and Prey Selection by Avian Predators: A Compar- ative Study in Two Colonies of California Gulls	J. R. Jehl, Jr. and C. Chase III	91
*Proximate Mechanisms Affecting Dietary Switches in Breeding Gulls	C. Annett	102
*Diets of Glaucous-winged Gulls: A Comparison of Methods for Col- lecting and Analyzing Data	D. B. Irons	103
*Predatory Behavior of Yellow-footed Gulls toward Heermann's Gull Chicks at Dense and Scattered Nesting Sites	E. Velarde	104
HABITAT SELECTION		
Habitat and Nest-site Selection of Mew and Glaucous-winged Gulls in Coastal British Columbia	K. Vermeer and K. Devito	105

Behavioral Consequences of Habitat Selection in the Herring Gull	R. Pierotti	119
*Seasonal Distribution of Foraging Gulls at Florida Landfills	S. R. Patton	129
*Patterns of Distribution of Diurnally Roosting Gulls in a Coastal Marine Environment	G. Chilton and S. G. Sealy	130
HYBRIDIZATION		
Hybridization of Glaucous and Herring Gulls in Iceland	A. Ingolfsson	131

* Abstracts only.