



Maine Coastal Islands National Wildlife Refuge

Final Comprehensive Conservation Plan April 2005





This goose, designed by J.N. "Ding" Darling, has become a symbol of the National Wildlife Refuge System.

The *U.S. Fish and Wildlife Service* is the principal Federal agency responsible for conserving, protecting, and enhancing fish, wildlife, plants, and their habitats for the continuing benefit of the American people. The Service manages the 95-million acre National Wildlife Refuge system comprised of more than 545 national wildlife refuges and thousands of waterfowl production areas. It also operates 65 national fish hatcheries and 78 ecological services field stations. The agency enforces Federal wildlife laws, manages migratory bird populations, restores nationally significant fisheries, conserves and restores wildlife habitat such as wetlands, administers the Endangered Species Act, and helps foreign governments with their conservation efforts. It also oversees the Federal Aid Program which distributes hundreds of millions of dollars in excise taxes on fishing and hunting equipment to state wildlife agencies.

Comprehensive Conservation Plans provide long term guidance for management decisions and set forth goals, objectives, and strategies needed to accomplish refuge purposes and identify the Service's best estimate of future needs. These plans detail program planning levels that are sometimes substantially above current budget allocations and, as such, are primarily for Service strategic planning and program prioritization purposes. The plans do not constitute a commitment for staffing increases, operational and maintenance increases, or funding for future land acquisition.







Maine Coastal Islands National Wildlife Refuge

(formerly Petit Manan National Wildlife Refuge Complex)

Final Comprehensive Conservation Plan April 2005

U.S. Fish and Wildlife Service Refuge Headquarters P.O. Box 279, Water Street Milbridge, ME 04658-0279



U.S. Fish & Wildlife Service

Maine Coastal Islands National Wildlife Refuge

(Formerly the Petit Manan National Wildlife Refuge Complex)

Final Comprehensive Conservation Plan April 2005

11pi ii 2005	
Submitted by:	
Charles W. Blair Refuge Manager Maine Coastal Islands National Wildlife Refuge	8-17-2005 Date
Concurrence by:	
Janet M. Kennedy Acting Refuge Supervisor, North National Wildlife Refuge System	8-17-2005 Date
Anthony D. Léger Northeast Regional Chief, National Wildlife Refuge System	8-17-2005 Date
Approved by:	
Marvin E. Moriarty Regional Director, Region 5	8-24-05 Date

Maine Coastal Islands National Wildlife Refuge P.O. Box 279, Water Street Milbridge, ME 04658-0279 207/546-2124 petitmanan@fws.gov http://petitmanan.fws.gov

U.S. Fish and Wildlife Service Website http://www.fws.gov

For National Wildlife Refuge System Information: 1800/344 WILD http://www.refuges.fws.gov

Federal Relay Service for the deaf or hard of hearing 1800/877 8339

April 2005



Maine Coastal Islands National Wildlife Refuge Final Comprehensive Conservation Plan April 2005

Abstract

Type of action: Administrative

Lead agency: U.S. Department of the Interior,

Fish and Wildlife Service

Responsible official: Marvin Moriarty, Regional Director, Region 5

For further information: Refuge Manager

P.O. Box 279, Water Street Milbridge, ME 04658-0279

207-546-2124

This Comprehensive Conservation Plan (CCP) for the Maine Coastal Islands National Wildlife Refuge (Refuge) is the culmination of an intensive planning process involving State and local partners, Refuge neighbors, private landowners, and the local community. The direction in this CCP includes an expansion of the Petit Manan Refuge unit by 2,306 acres beyond its current approved boundary. The expansion includes 87 nationally significant seabird, wading bird, and bald eagle coastal nesting islands and 153 acres of wetlands on the mainland. This CCP also adds six new seabird restoration projects to our present six, and intensifies the focus of our biological programs on birds of high conservation priority in the Gulf of Maine. It increases opportunities for wildlife-dependent recreation, especially in our environmental education and interpretive programs, builds new trails on the Gouldsboro Bay, Sawyers Marsh, and Corea Heath divisions, and opens the Petit Manan Point Division to deer hunting. It also recommends that 13 Refuge islands in 8 wilderness study areas be included in the National Wilderness Preservation System.

Table of Contents

		Page		
Chapter 1	Purpose and Need for Action			
	Introduction	1-2		
	Purpose and Need for Plan			
	Project Area			
	Service Policies, Mandates, and National and			
	Regional Conservation Plans Guiding the Project	1-4		
	Refuge Purposes and Land Acquisition Authority			
	Refuge Vision Statement			
	Refuge Goals			
Chapter 2	Planning Process			
	The Comprehensive Conservation Planning Process	2-2		
	Issues Outside the Scope of this EIS			
Chapter 3	Refuge and Resource Descriptions			
	Part One: The Refuge Landscape	3-2		
	Landscape-level Features	3-2		
	Socio-economic Characteristics of Coastal Maine	3-9		
	Refuge Administration	3-20		
	Wilderness Management	3-30		
	Cultural and Historic Resources			
	Part Two: Refuge Island Resources	3-34		
	Islands Overview	3-34		
	Threatened and Endangered Species (Federal-listed)	3-34		
	Seabirds	3-36		
	Waterfowl	3-40		
	Other Resident Wildlife	3-41		
	Island Vegetation	3-42		
	Individual Island Descriptions	3-42		
	Other Islands Affiliated with the Refuge Complex	3-76		
	Part Three: Refuge Mainland Resources	3-105		
	Petit Manan Point Division	3-105		
	Gouldsboro Bay Division	3-109		
	Sawyers Marsh Division	3-113		
	Corea Heath Division (pending transfer from the U.S. Navy)	3-117		
Chapter 4	Management Direction			
Chapter 4	Management Direction Introduction	4-2		
	General Refuge Management			
	Refuge Goals, Objectives and Strategies	4-0		

			Page
Chapter 5 Implementat	ion		
	Refuge St	affing	5-2
	Refuge Fu	ınding Needs	5-2
	Existing R	efuge Operational Plans ("Step-down plans)	5-4
	Compatibi	lity Determinations	5-6
	Monitoring	and Evaluation	5-6
	Additional	NEPA Analysis	5-7
	Adaptive Management		
	Plan Amer	ndment and Revision	5-8
Appendices	Appendix A	A – Land Protection Plan	A-1
		B – Species and Habitats of Conservation Concern	
		C – Compatibility Determinations	
		D- Wilderness Inventory and Study	
		E – List of Preparers	
		F – Refuge Operations Needs System (RONS) and	
	прропал	Management Maintenance Systm (MMS)	F-1
Glossary and		Wanagement Waintenance Cyclin (Willo)	
Literature Cited	0.1		0
	Glossary		•
	Literature	Cited	Literature-
List of Tables			
Liot of Tubico	1-1 His	story of acquisition at Petit Manan Refuge	1-11
		story of acquisition at Cross Island Refuge	
		pulations of eight coastal Maine counties	
		uaculture operations in Maine under lease	3-10
		of June 2004	3_11
		stribution of coastal excursion companies	
		fuge budgets from 1998 to 2004	
		fuge revenue sharing payments in fiscal year 2002	
		re plants documented on Refuge Islands	
		h 3-37 Nesting seabird species, number of pairs,	0 10
	0 / 404.9	(and year) observed on:	
	3-7	,	3-45
	3-8	•	
	3-9	11 5	
	3-1		
	3-1		
	3-1	2 Outer Heron Island	3-48
	3-1		
	3-1	4 Inner White Island	3-50
	3-1	5 Little Thrumcap Island	3-51

				Page
		3-16	Crane Island	. 3-51
		3-17	Franklin Island	. 3-52
		3-18	Metinic Island	. 3-53
		3-19	Two Bush Island	
		3-20	Mantinicus Rock	. 3-55
		3-21	Seal Island	. 3-57
		3-22	Roberts Island	. 3-58
		3-23	Little Roberts Island	. 3-58
		3-24	Bar Island	
		3-25	Eastern and Western Barge Islands	
		3-26	Ship Island	
		3-27	Trumpet Island	
		3-28	John's Island	
		3-29	Egg Rock Island	
		3-30	Petit Manan Island	
		3-31	Nash Island	
		3-32	Inner Sand Island	
		3-33	Eastern Brothers Island	
		3-34	Libby Island	
		3-35	Old Man Island	
		3-36	Outer Double Head Shot Island	
		3-37	Machias Seal Island	. 3-77
		3-38	Petit Manan Point Division cover types by acres	. 3-104
		3-39	Gouldsboro Bay Division habitat cover types by acres	. 3-107
		3-40	Sawyers Marsh Division cover types by acres	. 3-114
		3-41	Corea Health Division habitat cover types by acres	
		3-42	Summary of cover types by location on the Refuge	. 3-121
		4-1	Land acquisition summary	. 4-100
List of Figures				
· ·	2-1	Steps	in the comprehensive conservation planning	
			ss and their relationship to National Environmental	
		-	Act compliance	. 2-3
	5-1	-	nmended refuge staffing	
List of Mana				
List of Maps				
	1-1		f Maine Watershed	
	1-2		Coastal Islands National Wildlife Refuge	
	1-3		<u></u>	
	1-4		Bay	
	1-5		Bay	
	1-6		ongus Bay	
	1-7		Penobscot Bay	
	1-8	Inner	Penobscot Bay	. 1-19

		Page
1-9	Jericho Bay	1-20
1-10	Frenchman Bay	1-21
1-11	Petit Manan	1-22
1-12	Cobscook Bay	1-23
3-1	Smuttynose and Malaga Islands	3-78
3-2	Upper Flag Island	3-79
3-3	Ram Island	3-80
3-4	Pond Island National Wildlife Refuge	3-81
3-5	Lower Mark Island	3-82
3-6	Outer Heron, Inner White and Outer White Islands	3-83
3-7	Little Thrumcap Island	3-84
3-8	Franklin Island National Wildlife Refuge and Crane Island	3-85
3-9	Metinic Island	3-86
3-10	Two Bush Island	3-87
3-11	Matinicus Rock	
3-12	Seal Island National Wildlife Refuge	
3-13	Roberts and Little Roberts Islands	
3-14	Little Marshall Island	3-91
3-15	Johns Island	
3-16	Bar, Ship and Trumpet Islands, East and West Barges	
3-17	Egg Rock	3-94
3-18	Petit Manan Island	
3-19	Sally and Abbott Islands	
3-20	Bois Bubert Island	
3-21	Nash and Inner Sand Islands	
3-22	Halifax, Schoppee and Eastern Brother Islands	
3-23	Libby Island	
3-24	Cross Island National Wildlife Refuge	
3-25	Machias Seal Island	
3-26	Petit Manan Point Division and Bois Bubert Island	3-107
3-27	Petit Manan Point Division and Bois Bubert Island	
	Cover Types	
3-28	Gouldsboro Bay Division	
3-29	Gouldsboro Bay Division cover types	
3-30	Sawyers Marsh Division	
3-31	Sawyers Marsh Division cover types	
3-32	Corea Health Division	
3-33	Corea Health Division habitat cover types	
4-1	Corea Health Division Public Use	4-71
4-2	Gouldsboro Bay Division Public Use	
4-3	Petit Manan Point Division Public Use	
4-4	Sawyers Marsh Division Public Use	4-74