OPERATION RECOVERY AT MONHEGAN ISLAND, MAINE, 1960 By Albert Schnitzer

Any vessel which sails along the coast between Canada and the U.S., which crosses the ocean from or to New England must pass fairly close or which crosses the ocean from or to New England must pass fairly close to Monhegan Island. Since the island towers out of the sea to a preciptor Monhegan 160 feet, voyagers must almost surely notice it. Therefore Monhegan mentioned in the logs of explorers and travelers since the very last base days.

Leif Ericson may have landed there, for on its tiny sister island of can be found certain marks on a great rock which appear to be Norse There followed a whole succession of explorers which may have include the Cabots and Verrazano, and which certainly did include John Smith. Colonial days, sailing vessels regularly stopped there for fresh fish and to gather berries. This practice persisted through the early steam navigation. Even today pilots leave from Mknhegan to board bound for "down-east" harbors.

It is possible that avian travelers are influenced by some of the same factors which have made Monhegan figure in the affairs of men, for it stands, included but prominent, directly across the air route from Nova Scotia and the Maritime Provinces to Maine. There still exists the same abundance of the sum of the stand of the standard of the standard

Monhegan is located at latitude 43 degrees 50 minutes north, longitude 50 degrees 20 minutes west, about 10 miles from the nearest point of mainland to the northwest, with Port Clyde about 15 miles to the north, Boothbay arour a bit farther to the west, and the southern tip of Nova Scotia far may to the east, some 180 miles across the outer waters of the Bay of Fundy. Improximately $1\frac{1}{2}$ miles long by $\frac{1}{2}$ mile wide, the island covers roughly 800 acres. A fuller description of the island, including some of our observations especially during the fall of 1957, appears in our article "The Fall digration at Monhegan" in the Maine Field Naturalist of April 1960.

During the tourist season, Monhegan is visited by thousands of vacationers, but after Labor Day the population drops abruptly to the normal 50 and odd. Although it has never seemed excessively crowded to us even uring the summer, we like it best in the fall when it again becomes a quiet community of lobster fishermen. Originally we selected Monhegam for a holimay simply because it seemed the most remote island which could be reached ferry. It was not until later that we became aware of its spectacular and wealth of birds.

After we became acquainted with and participated in Operation Recovery, tankegan appeared to us to be most strategically located to be included in

Werch-April 1961

this program. It appeared that data collected there might be particular pertinent to answer some of the puzzles that intrigue migration students everywhere, such as:

Are there fixed migration routes for each species?

How are these routes affected, if at all, by physical barriers?

To what extent is the hereditary and instinctive route altered by immediate and variable causes such as weather and wind?

Do mature birds vary the hereditary route to conform with previous experience? Do such experienced birds lead immatures? Do families remain intact during migration?

What stimuli launch flights? Are these stimuli physiologically cyclic only, or may they be external such as weather, light what is the relation between rarities and extension of range?

Obviously, these questions are general and not confined only to Monha gan; but, it did seem to us that some variables which serve to cloud sets of observations on the mainland might be less intrusive on a small island. Further, its location athwart possible migration paths recommended it above all, was the likelihood of readily amassing large numbers of banding records and an excellent prospect of a goodpercentage of returns in subsequent seasons.

Consequently, we determined that, if possible, we would set up a bank project on the island. It was not at all certain that permission from the local people would be obtainable. Communities in much more sophisticated metropolitan areas have reacted negatively to banding. The first require was to obtain permission to band from the island authorities.

The local government of the Plantation, as it is designated, is a trademocracy in which almost the entire population participates directly. Expense us personally from previous visits, but we felt we were best known to Mrs. Marion Cundy at whose cottage we had stayed on previous visits. Therefore, we wrote to her, enclosing our article from the Maine Field Naturalis and some publicity on Operation Recovery at Island Beach which had appears in the Newark Evening News. Almost immediately came Mrs. Cundy's favorable response, granting permission from Mrs. Virginia Davis, the first selected In a larger and less democratic community, we might have had weeks of correspondence before obtaining action.

A state permit to band was also necessary, but this too came prompts and with very little red tape. Readers who may wish to apply for a Main banding license are referred to Mr. W. R. DeGarmo, Chief, Game Division, Department of Inland Fisheries and Game, Augusta Maine.

The roads all the way to Port Clyde are excellent. From May to Odde the mail boat runs to Monhegan daily except Sunday. It leaves at 11 A.B. Cars may be parked outdoors at Port Clyde for a small fee. During July August there is also a daily excursion boat to Monhegan from Boothbay Hard

on the island, transportation is by shank's mare. We have often considered a bicycle, for there is about a mile of road, but much of this is all calculated to break the frame of a bike, let alone its rider's spine. Scause of the need of so much walking, it is well to take along many more and poles than may be manned at one time. One may thus change location and forth by merely furling and tieing the unused nets without the scessity of lugging heavy equipment on foot. A portable arrangement of books, bands, and other supplies is essential.

Fortunately, the greatest concentration of birds occurs on the western did of the island, the village side, where our lodging and meals were loses arily located. This, however, posed the problem of working close to where we might be unwanted trespassers, and certainly of operating moder constant scrutiny of passers-by.

Our fears on the first were quickly resolved. The Odum brothers who run the Monhegan Island Store gave us full permission to band at their ice and which is at the north edge of the village. They also invited us to invited us to band on their property, among whom were the Parkers and the ernsteins who maintain feeding stations. We were also permitted to band the Island Inn. Best banding was at the edge of town-owned meadow which the village to the east. Here we set up headquarters behind the "1784 herce and Henley Day."

We mention these places not only to acknowledge the indulgence of the sumers, but also to suggest to others who may wish to band at Monhegan that we believe we'd have been permitted to band, upon request, by any of islanders. All of them took a lively interest in our work, greeted us deerfully, kidded us good naturedly, and generally made us feel welcome.

Working under the eye of the public was at times a trial, even though the have always advocated candor rather than secrecy, where netting is consend, in order to educate the public rather than to foster suspicion.

This philosophy did not prevent me from getting stage fright one day men I was working on a thoroughly enmeshed and highly vocal sapsucker just all decided to walk up the road for a constitutional while the boat was unloaded. I didn't even have my scissors with me with which to cut to my dilemma. Their proffer of assistance, en masse, did not lessen my discomfiture.

On another occasion, a group of people were standing near one of our located by some shrubs when a flock of goldfinches, hotly pursued by (continued on page 44)

and Albert Schnitzer, Mountainside, N. J. Cooperators: Eva F.

Cooperators: Eva F. Cooperators: Avaine.	TAND	MAIN		EPTE	MBE]	SEPTEMBER 19 to OCTOBER 10, 1960	OCT	OBER	10, 196	09	
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Birds

U.S. Fish & Wildlife Service Operation Recovery Bird Banding Project, 1960

Cooperators: Eva F. and Albert Schnitzer, Mountainside, N. J.

OCTOBER 10, 1960

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10/1 10/2	Sharp-shinned Hawk Black-billed Cuckoo Yellow-shafted Flicker Downy Woodpecker Eastern Phoebe Yellow-bellied Flycatcher	Emplacian sp. Blue Jay Black-capped Chicadee Brown Creeper Catbird Brown Thrasher Robin	Swainson's Thrush Golden-crowned Kinglet Ruby-crowned Kinglet Solitary vireo Red-eyed Vireo Black-&-white Warbler	Tennessee Warbler Orange-crowned Warbler Nashville Warbler Parula Warbler Magnolia Warbler	Prairie Warbler Palm Warbler Ovenbird	Northern Waterthrush Connecticut Warbler Vellowthroat	Yellow-breasted Chat American Redstart Baltimore Oriole Rusty Blackhird	Cowbird Scarlet Tanager Rose-breasted Grosbeak Indigo Bunting	American Goldfinch		Chipping Sparrow	White-throated Sparrow	Lincoln's Sparrow Swamp Sparrow Song Sparrow	Daily Total Individuals	Daily Total Species	Daily Net Hours	Daily Maximum Nets

(continued from page 39)

a sharp-shinned hawk, plunged toward the protective shrubbery. In a flash a sharp-shinned hawk, plunged toward one production of which we do be a several of which we do be a several of which we do be a several of the momentarily dazed hawk. We'd be a several of the momentarily dazed hawk. within talon and beak reach of the momentarily dazed hawk. We'd been within talon and beak reach of the momentarily dazed hawk. We'd been were within talon and beak reach of the momentarily dazed hawk. to another net but happened back just in time to see the strike. The had was disengaged and freed within seconds, before any casualties had occurred within seconds. We shudden the course of the course We then stuffed 17 goldfinches into our gathering cages. We shudder to We then sturred in gold included the sturred of our project if we had been think what opinion might have been formed of our project if we had been in minute later.

Particularly pleasant were our experiences with the school children There is a neat school house with eight "scholars" and one master, located close by the ice pond and the meadow where we did most of our work. each recess the children would rush out to regale us with pears or apple for which they had just climbed, or to bring us dead birds, or merely to show off their acrobatic abilities. They besieged us with questions hope our extemporaneous lectures widened their knowledge of natural history and deepened their understanding of the problems of conservation.

To revert to the scientific end of our paper, we show a chart of the numerical results of our banding. (See preceding 4 pages -- Ed.) It will be observed that on some days we worked relatively few net hours. The are usually the days on which banding was not possible because of high was or rain and fog. But on some fairly pleasant days we also lost time ship ing our nets, sometimes in order to explore a new location, sometimes in order to net at a feeding station. This last we felt to be important because returns, in succeeding years, might thus be noticed even if the banding were not continued.

Incidentally, we must confess that rain and fog were almost welcome since this offered a respite from the usual gruelling hard work of banding from dawn to dusk, trudging from site to site, making frequent changes in location, and trimming nets in the almost incessant wind.

The coast guard station readily permitted us to copy their weather records. Thus far, however, we have been unable to correlate successfully fluctuations in the bird density with any constant factor in the weather Up to the moment we have not had an opportunity to attempt any such correlation ation with the general weather picture.

Flights past Monhegan originate presumably to the north and east. Although it is difficult to band and observe at the same time, we were able to make a number of observations. We are able to say that the birds which have landed on Monhegan make their way, as they feed, toward the west side of the island, the portion nearest Manana which lies to the west. When they take off it is toward the west; not necessarily due west, but western Those that arrive come from an easterly or northeasterly direction. Strong high flyers, such as the geese and cormorants, continue in a southwest direction without stopping.

on the afternoon of the 12th, on the headlands along the east and north island, we searched the sea unsuccessfully for birds coming in over It is very easy to overlook a little bird flying low over a great of sea. but we can be fairly any that sea, but we can be fairly sure that no flocks came in overhead, we'd have been able to spot. Yet there were many birds around us; somg sparrows, vesper sparrows, myrtle warblers, flickers, a winter crows, many accipiters, and even a pair of ravens. The small birds their way along the rocks and boulders at the foot of the precipitous. cliffs until they find a gulley that descends to the sea. Shrubs and trees that have taken a foothold in these gullies provide cover in the birds work their way inland.

whe nawks course back and forth, alert. It must be relatively easy the patrolling hawks to sally out over the sea to pluck a tired individof the air, and we are told that this has often been seen, but we did not happen to notice this on the east side of the island. I that remained of a flicker, the yellow feathered wing, to a tall where it twirled about in the stiff breeze. As soon as I retired, sharpies approached to investigate, but neither was deceived.

on other afternoons in previous years we have seen birds comein at eye or higher, (the headlands stand 160 feet above the sea). Some seemed They would land in the sparse bushes off the rim of the cliff. would continue on to disappear in or over the woods. For all we those that disappeared over the woods did not necessarily land, but have continued on their way toward the west without stopping at onhegan at all.

The 13th was comparatively warm and quiet. Relatively few birds were mit. In the afternoon, one of the coastguardsmen rowed us across to mana. Here there were even fewer birds than on Monhegan. We had an idea et since the birds that leave Monhegan pass across Manana, we would find are numbers of them there. We questioned the "hermit", and from his sponses gathered the impression that the flocks which we have seen dismear over Manana do not usually land there but continue on. (The "hermit" an island celebrity who is described in the book. The Island Shepherd Molla Niclas, published by the Viking Press, 1959.)

So that you may get some idea of how quickly the bird picture can change m, or a significant observation be missed, I'd like to quote from my Me's log for October 14, 1960:

"At 6 A.M. there was a heavy stillness in the air. At first a bit of light appeared in the west, then the east became faintly pink. The pink spread and the whole eastern sky became a strange, glowing rose - as if there were a conflagration. In ten minutes at most the color vanished completely and a gray menacing sky began building up, clouds piled atop clouds.

"Bird activity! Indescribable. Motion and sound. Birds swarming in every bush, every tree, every patch of grass, risin flocks as one walked. The sky was filled with their chiral and chips. Never before, in all our years of birding, have seen anything to approach their numbers. Cape May at its best could not rival this. High above us, tier on tier, even bett the range of our glasses, birds were moving westward.

"At breakfast at 8:15, Mrs. Cundy said, Morning sky aflar sailors beware," Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Morning sky aflar sailors beware, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Morning sky aflar sailors beware, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Morning sky aflar sailors beware, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Morning sky aflar sailors beware, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Morning sky aflar sailors beware, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Morning sky aflar sailors beware, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Morning sky aflar sailors beware, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Foul weather did seem on its way. Not a breakfast at 8:15, Mrs. Cundy said, Foul weather did seem on its way.

It is evident that needed badly are many more banders and observer posted along the various possible flight routes from the north and east. Work done simultaneously by such workers, especially if they could be quipped with communication devices would speed up the accumulation of data. All this may never be entirely feasible. Perhaps the ultimate wers to our ornithology problems await the advance of new inventions and techniques, not yet created. For example, a British scientist was able recently to trace the time of flight and path of a certain African butter fly by its fall-out contamination.

On the other hand, one need only read articles like the reports by Bagg and Emery on the Northeastern Maritime Region in the Audubon Field Notes in February 1960 and February 1961 to realize how a careful computer put together bits of evidence with which to find the answers to these puzzles.

For our part, we are glad these inventions have not yet appeared the scene, and that there is still a purpose in being afield with binon and note book on a cold and wet dawn.

Wild Hedge Lane, Mountainside, N.J.

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OLD - AGE Mrs. Mabel Gillespie writes, "As a postscript to the paper of OSPREY Ospreys which appeared in EBBA NEWS last spring (May-June 19 issue) I would like to add the following: an Osprey banded July 12, 1941, in Cape May County, New Jersey, was electrocuted on a tell phone wire on Shun Pike Road north of the Cape May Canal, Cape May County. N.J. The letter reporting this was dated August 4, 1960. The Osprey, therefore, was nineteen years old, and came back to the vicinity of its birthplace."

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(The senior editor is returning a week somer to originally planned from a trip to Italy and Greece just so that he would miss his 13th successive EBBA meeting.) # ##