OPERATION RECOVURY<br>at MONHGGAN ISLAND, MAINE, 1960<br>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 Non lsland. Since the island towers out of the sea to a precipftous 160 feet, voyagers must almost surely notice it. Therefore Monhegan been mentioned in the logs of explorers and travelers since the very days.
Leif Ericson may have landed there, for on its tiny sister island of gnana can be found certain marks on a great rock which appear to be Norse nates, There followed a whole succession of explorers which may have incluurlag colots and Verrazano, and which certainly did include John Smith.正 ressals 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, inglated but prominent, directly across the air route from Nova Scotia and the Maritime Provinces to Maine. There still exists the same abundance of pervies which enticed the Indians and sailing men; and there is plenty of seet water and cover where migrants may rest.

Nonhegan is located at latitude 43 degrees 50 minutes north, longitude 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 arbor a bit farther to the west, and the southern tip of Nova Scotia far way to the east, some 180 miles across the outer waters of the Bay of Fundy. pproximgtely $1 \frac{1}{2}$ miles long by $\frac{1}{2} \mathrm{mile}$ wide, the island covers roughly 800 10res. A fuller description of the island, including some of our observaHons especially during the fall of 1957, appears in our article "The Fall Igration at Monhegan" in the Maine Field Naturalist of April 1960.

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

After we became acquainted with and participated in Operation Recovery, legan appeared to us to be most strategically located to be included in
this program. It appeared that data collected there might be particula pertinent to answer some of the puzzles that intrigue migration studear everywhere, such as:

Are there fixed migration routes for each species? How are these routes affected, if at all, by physical bark To what extent is the hereditary and instinctive route alterg? by immediate and variable causes such as woather and wind Do mature birds vary the hereditary route to conform wit previous experience? Do such experienced birds lead tures? Do families remain intact during migration?
What stimuli launch flights? Are these stimuli physiolo cyclic only, or may they be external such as weather, loaly What is the relation between rarities and excension of

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

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

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

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

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

On the island, transportation is by shank's mare. We have often conto break the frame of bik. Iet is se of the need of so much walking, it is in mine. ts and poles than may be manned at one time. One may thus change mare and forely furling and tieing the unused nets without the books, bands, and other supplies on foot. A portable arrangement of and other supplies is essential.

Fortunately, the greatest concentration of birds occurs on the western de of the island, the village side, where our lodging and meals were s where we might be unwanted trespascer the problem of working close to constant scrutiny of passers-by.

Our fears on the first were quickly resolved. The Odum brothers who which is at the no save us full permission to band at their ice at the store which inge of the village. They also invited us to nvited us to band on the in the midst of the village. Soon, others too amsteins who maintain feeding 4 the Slatons and Mrs. Cundy, on thions. We were also permitted to band haland Inn. Best banding was at theach near the Henley Days, and behina ins the village to the east. Here we set up of town-owned meadow which ouse" as we called it, where we worked with headquarters behind the "1784 Herce and Henley Day.

We mention these places not only to acknowledge the indulgence of the aers, but also to suggest to others who may wish to band at Monhegan tat we believe we"d good results may be obtained. We must say, however islanders. All of them took a lively interest upon request, by any of serfully, kidded us good nature a lively interest in our work, greeted us
and generally made us feel welcome.
always advocated candor public was at times a trial, even though in order to educate the public rather then, where netting is conthan to foster suspicion
wittery ladies who had taken the mail boat for a sucker just dod walk up the road for a constitutional while the round-trip out of my dilemma. even have my scissors with me with which to cut my discomfiture.
located by ated by some shrubs when a flock of goldfinches, hotly pursued of (continued on page 44)



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(continued from page 39) a sharp-shinned hawk, plunged toward the protective shrubbery. our net sagged under the load of frantic goldfinches several of whis $\mathrm{fl}_{\text {ash }}$ within talon and beak reach of the momentarily dazed hawk. We'd be to another net but happened back just in time to see the strike. was disengaged and freed within seconds, before any casualties had We then stuffed 17 goldfinches into our gathering cages. We shudd occurm think what opinion might have been formed of our project if we had bee minute later.

Particularly pleasant were our experiences with the school child There is a neat school house with eight "scholars" and one master, locan, close by the ice pond and the meadow where we did most of our work. At each recess the children would rush out to regale us with pears or at for which they had just climbed, or to bring us dead birds, or merely show off their acrobatic abilities. They besieged us with questions hope our extemporaneous lectures widened their knowledge of natural 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. These are usually the days on which banding was not possible because of high whel or rain and fog. But on some fairly pleasant days we also lost time shim 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 becss 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 successfulls 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 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 abil to make a number of observations. We are able to say that the birds have landed on Monhegan make their way, as they feed, toward the of the island, the portion nearest Manana which lies to the west. they take off it is toward the west; not necessarily due west, bu Those that an artherty direction. Stror high flyers, such as the geese and cormorants, continue in a southwest direction without stopping。
the afternoon of the 12 th, on the headlands along the east and north island, we searched the sea unsuccessfully for birds coming in over 1sl. It is very easy to overlook a little bird flying low over a great ter sea, but we can be fairly sure that no flocks came in overhead, se we'd have been able to spot. Yet there were many birds around us; song sparrows, vesper sparrows, myrtle warblers, flickers, a winter , ows, 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.
ne nawks course back and rorth, alert. It nusi ve relalively tasy the patrolling hawks to sally out over the sea to pluck a tired individout of the air, and we are told that this has often been seen, but we ives did not happen to notice this on the east side of the island. I all 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, arpies 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 an at all.

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

So that you may get some idea of how quickly the bird picture can change , or a significant observation be missed, I'd like to quote from my 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. $\mathrm{Bi}_{\mathrm{rd}}{ }_{8}$ swarming in every bush, every tree, every patch of grass, ris in flocks as one walked. The sky was filled with their chir and chips. Never before, in all our years of birding, have seen anything to approach their numbers. Cape May at its be
could not rival this. High above us, tier on tier, even beyo the range of our glasses, birds were moving westward.
"At breakfast at $8: 15$, Mrs. Cundy said, 'Morning sky aflarn sailors beware, Foul weather did seem on its way. Not of wind after so much blow. A slight drizzle had begun. activity overhead had ceased."

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 bo 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 Afrioan butt 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 Fielj Notes in February 1960 and February 1961 to realize how a careful compll can 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 binom and note book on a cold and wet dawn.

Wild Hedge Lane, Mountainside, N.J.
OLD - AGE Mrs. Mabel Gillespie writes, "As a postscript to the papari OSPREY Ospreys which appeared in SBBA NENS last spring (May-June issue) I would like to add the following: an Osprey banded July 12, 1941, in Cape May County, New Jersey, was electrocuted on a toll phone wire on Shun Pike Road north of the Cape May Canal, Cape May Cout 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 th birthplace."
(The senior editor is returning a week sooner originally planned from a trip to Italy and Greece just so that he wot miss his 13 th successive $\operatorname{ZBBA}$ meeting.) \#

