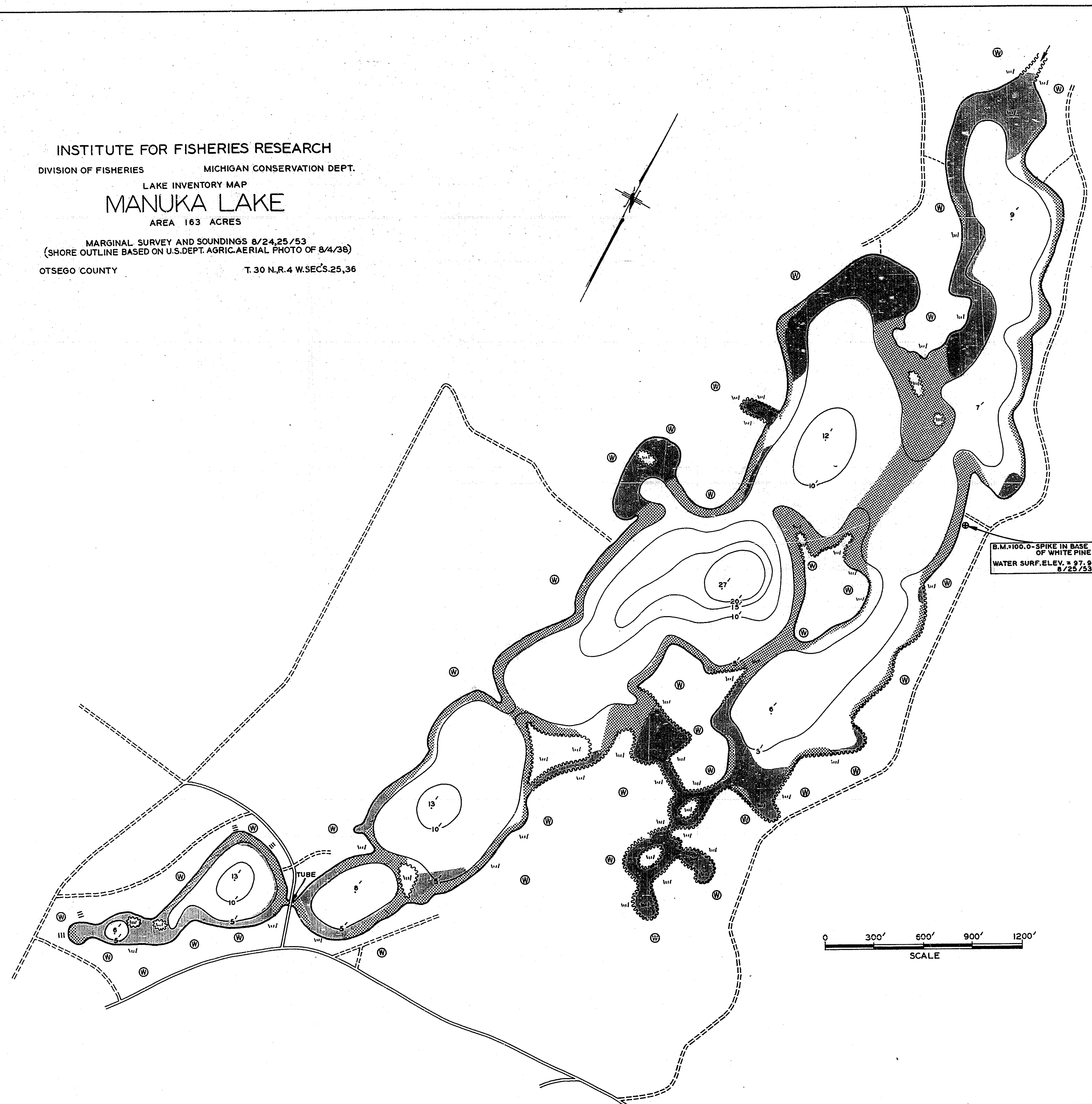
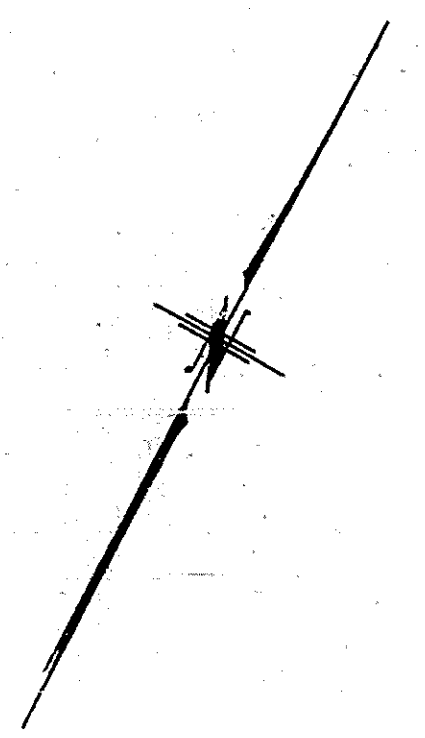
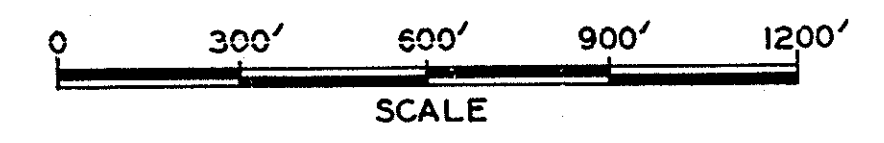


INSTITUTE FOR FISHERIES RESEARCH
 DIVISION OF FISHERIES MICHIGAN CONSERVATION DEPT.
 LAKE INVENTORY MAP
MANUKA LAKE
 AREA 163 ACRES
 MARGINAL SURVEY AND SOUNDINGS 8/24,25/53
 (SHORE OUTLINE BASED ON U.S. DEPT. AGRIC. AERIAL PHOTO OF 8/4/38)
 OTSEGO COUNTY T. 30 N., R. 4 W. SEC'S. 25, 36



B.M. 100.0 SPIKE IN BASE
 OF WHITE PINE
 WATER SURF. ELEV. = 97.9
 8/25/53



- LEGEND**
- BOTTOM**
- Sand
 - Pulpy peat
 - Fibrous peat
- OUTLINE & CONTOURS**
- Shoreline
 - Contours
- SHORE FEATURES**
- Slope
 - Improved road
 - Unimproved road
 - Trail
 - Encroaching shore
 - Marsh
 - Wooded
 - Inlet