

Prepared in cooperation with the IOWA DEPARTMENT OF NATURAL RESOURCES

SCIENTIFIC INVESTIGATIONS MAP 2949 Bathymetric contours of Lake Minnewashta, Dickinson County, Iowa—PLATE C Linhart, S.M., and Lund, K.D., 2006, Bathymetric Contour Maps of Lakes Surveyed in Iowa in 2004

Abstract

Department of Natural Resources, conducted bathymetric surveys on six lakes in Iowa during 2004 (Lake Darling, Littlefield Lake, Lake Minnewashta, Nine Eagles Lake, Prairie Rose Lake, and Upper Gar Lake). The surveys were conducted to provide the Iowa Department of Natural Resources with information for the development of total maximum daily load limits, particularly for estimating sediment load and deposition rates. The bathymetric surveys can provide a baseline for future work on sediment loads and deposition rates for these lakes. Two of the lakes surveyed in 2004, Lake Minnewashta and Upper Gar Lake, are natural lakes. The other four lakes are manmade lakes

Bathymetric mapping can provide useful information for water-quality managers to address a variety of issues pertaining to Iowa's lakes and reservoirs. The Iowa Water Science Center of the U.S. Geological Survey (USGS) Lake Delhi in east-central Iowa, which resulted in a published bathymetric map and report (Schnoebelen and others, 2003). The USGS, in cooperation with the Iowa Department of Natural Resources (IDNR), conducted a bathymetric survey of Lake Minnewashta in 2004. The bathymetric survey was conducted to provide the IDNR

Bathymetric Contours

- hydrographic survey software user's manual: Middlefield, CT, Coastal Oceanographics, Inc. [variously paged].
- K.D., 2003, Bathymetric mapping, sediment quality, Geological Survey Water-Resources Investigations
- Specialty Devices, Inc., 2003, Bathymetric survey system BSS+5 with omnistar manual: Plano, TX, Specialty Devices, Inc., 38 p.
- design—Hydrographic surveying EM 1110-2-1003: p. 9–4 to 9–9; accessed in January 2004 at

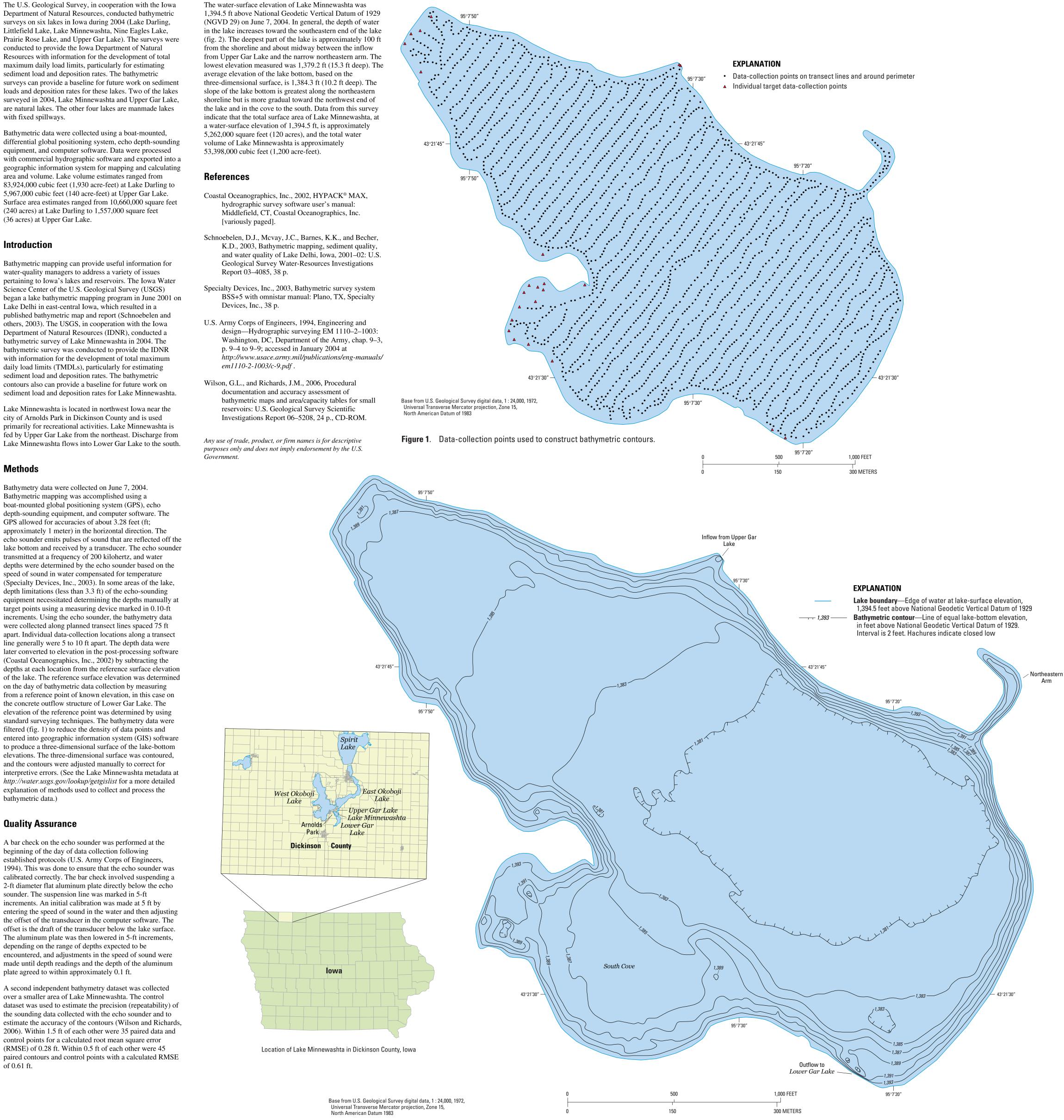


Figure 2. Bathymetric contours for Lake Minnewashta, 2004 (not for navigational use).

Bathymetric Contours of Lake Minnewashta, Dickinson County, Iowa

By S.M. Linhart and K.D. Lund 2006