

Evolution of Science Support: Toolik Field Station 1980

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Dormitories

1975-1987

- Sampling of lakes, ponds, and streams began in summer 1975 (road newly opened) with goal of documenting aquatic organisms, water chemistry, processes. Tundra studies began after a few years. OPP and DOE projects.
- Trucks rented at Prudhoe Bay, subcontract to UAF to send up food via air. This evolved into food and supply trucks from UAF support center.
- Tent camp plus Vera Alexander IMS camper, used boats purchased in Fairbanks. In following years a series of used ATCO trailers purchased for cooking, sample preparation, eventually housing .
- Electricity, emergency telephone courtesy of pipeline construction camp at first then small generators.
- Philosophy: Any necessary field equipment purchased by grants and left overwinter in trailers. Science support emphasized travel logistics, room and board, science permits and supplies from UAF, and transport of samples. Data storage by individual projects. Climate station summer only.

1988-2000

- NSF-Long Term Ecological Research (LTER) funded (6-yr grants, latest 2012). OPP project continued. Growth of many other NSF DEB and OPP projects (mostly short-term) on specific topics.
 - Emphasis on measuring biological, chemical, and physical cycles and basic arctic ecology with observations and manipulations (e.g., changes due to fertilizing, soil warming, changing community composition). LTER required high quality long-term data, climate data year-round, data base at MBL on basic biology, chemistry, physics.
 - Shift in goals to landscape difference effects, arctic warming.
- Science support from Toolik Field Station:
 - Transportation of people and material to and from Toolik. Good quality lab space. Dormitories and dining room. Some basic lab instruments bought on large projects and left at Toolik (e.g., ovens, vacuum pumps, microscope, gas chromatographs).
 - BLM permits field studies (LTER mostly). UAF radioisotope oversight.
 - Trucks bought on individual projects. Some available from TFS.
 - Year-round fiber optics connection to TFS.
 - Help from TFS staff with construction, fixing equipment, some limited sampling.



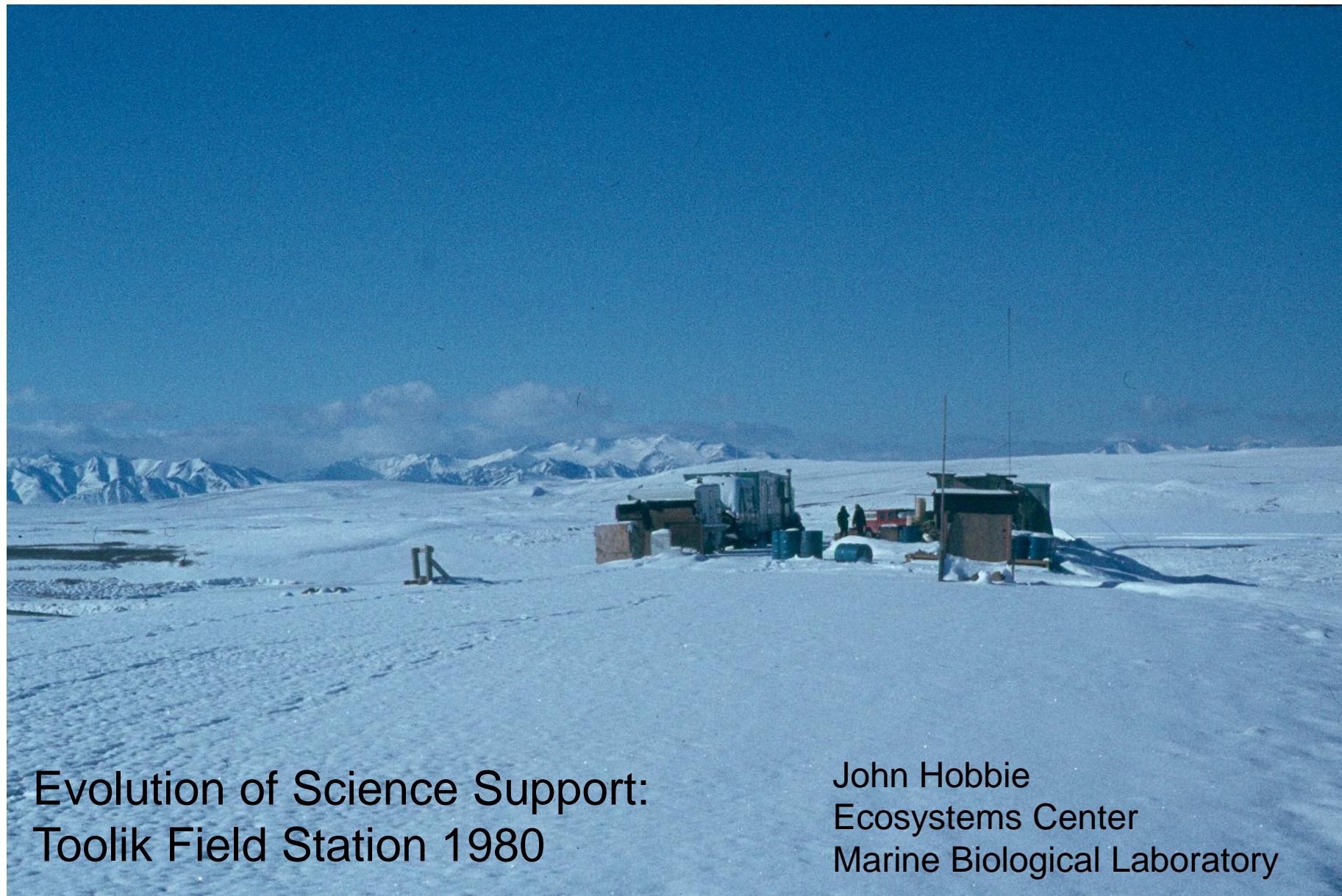
More Dormitories

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