

Accurately projects position of stars and planets

Registration No.	Number 00311		
Registration Date	September 14, 2021	Registration Category	Category 1

Name (Model, etc.)	Astronomy training system (Goto Planetarium Model M-1 for medium-sized domes)		
Location	Koto-ku, Tokyo		
	Etchujima Campus (School of Marine Technology)		
Owner (Custodian)	Owner: Tokyo University of Marine Science and Technology Managed by: Tokyo University of Marine Science and Technology, Faculty of Marine Technology, Maritime Promotion Chapter		
Manufacturer (Company)	Goto Inc.		
Year Manufactured	1965		
Year first appeared	1959		
Reason For Selection	This is the first fully projected planetarium made in Japan. Astronomy has always been popular throughout Japan, giving rise to an established culture of stargazing. The planetarium represents a product of this longstanding interest in the stars combined with an increasing focus on scientific education and space exploration at the time. This Goto planetarium is a mid-size unit that provides lens projection of fixed stars as well as annual motion projection of the planets, with performance (particularly accuracy) to rival much larger machines of its time, at around one-tenth of the cost. The heavier fixed planet projection components are located at the center of the moving section, with the lighter planetary shelves around the outside. This design helps to minimize projection inaccuracies associated with deflection of the ecliptic axis. The ninth M-1 made, it was installed at the Tokyo University of Mercantile Marine (now Tokyo University of Marine Science and Technology) and used for training in astronomical observation for marine navigation—the art of using the positions of the stars and planets to determine locations at sea. It provides an important insight into the nature of astronomy education and the technological standards of the time.		
Registration Standard	1-A (Show an important aspect or stage of the development of science and technology.)		

Open/Closed to Public	Closed to Public		
Photo			
Other useful information			