

## Discovery man-made spherical (0.5 to 2.0 mm in diameter) glassy materials from nearshore sediments of Hakodate Bay, Hokkaido

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We found a number of man-made spherical glassy materials from the uppermost storm deposit of Hakodate Bay, Hokkaido. These are 0.5-2.0 mm in a diameter and consist of black-brown glass with a lot of bubbles and opaque matters. The density during the formation is extremely high, because there are particles to which many small particles are attached. Judging from the occurrence and morphological character, we believe that SP were formed by explosions of large steamships at Second World War (July, 14, 1945). Then they were reworked and concentrated into graded bedding induced by Toyamaru Typhoon in 1954. Using stratigraphic distribution of man-made spherical glassy materials, we may estimate sedimentary rate and thick of mixed layer of nearshore deposits of bay area that were attacked at Second World War.