

# PALIMMN Data Sheet

Lake Name:

Survey date:

GPS coordinates:

Observers:

Institution:

Transect #	
Transect length	
Location on lake	
Percentage with white ice (you cannot see through)	
Percentage with black ice (in which it should be possible to see bubbles)	
Maximum lake water depth (m)	
Water depth along transect site (m)	
Ice thickness at time of transect (cm)	
Snow depth at time of transect (cm)	

## Sketch/Map/Picture of site

Draw a sketch or insert a picture here

## Environmental Observations (check all that applies):

**Cracks in the ice:**  No    Yes:  1-5     More than 5

**Snow on ice:**  None     Patchy snow     Continuous     Wet slush

**Lake water color:**  Brown     Clear

**Smell:**     None     H<sub>2</sub>S     Organic decay

**Vegetation** under the ice:     Few submerged plants beneath the ice     Many

Photosynthesis bubbles about ....% of transect

**Lake margins:**     Steep     Flat     Erosion     Floating mats     Other :

**Methane:** Large seep bubble clusters present in ice?     Yes     No

Open -hole hotspot seeps present on lake?     Yes     No

The site is in the following natural **biome**

- Tundra    Taiga/Boreal forest    Temperate Conifer forest    Temperate Deciduous/mixed forest
- Other:

The natural environment of the site has been modified by **human activity** in the following way:

- Urban dense settlement    Rural (villages)    Agriculture    Forestry
- Gravel pit    Reservoir    Little human influence    No human influence

**Additional comments:** *(for instance, are there beaver's works on the pond? Is the lake drained? Have you ever noticed methane ebullition on this lake, when? Etc)*

<b>Transect</b>								
<b>GPS Waypoint</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Type of bubble (A, B, C or Hotspot)</b>	<b>Size 1 (cm)</b>	<b>Size 2 (cm)</b>	<b>Bubble product (size 1 x size 2)</b>	<b>White ice?</b>	<b>Comments</b>

<b>Bubble traps</b>	
<b>Bubble traps set? (yes/no)</b>	
Gas collected (yes/no)	
Number of bottles collected	
Bottles ID	
<b>Comments:</b>	

## Site photos

Please take at least:

- A picture from the beginning of each transect, toward the end of it. Specify the orientation (North, North East etc).
- A picture from the end of the transect, toward the beginning of it. Specify the orientation (North, North East etc).
- A picture of what you call an A, B, C bubbles and hotspot, with a scale (such as a glove).

Picture	Situation	Object