Table S2. Number of metagenomes used in this study before and after data analysis, and their distribution per country/location. Metagenomes were excluded if they did not fulfill the criteria outlined in Materials and Methods.

| Country/Location | Number of Metagenomes Before contamination assessment | Number of Metagenomes After contamination assessment |
|------------------|--------------------------------------------------------|-----------------------------------------------------|
| Antarctica       | 31                                                     | 27                                                  |
| Canada           | 208                                                    | 75                                                  |
| China            | 3                                                      | 3                                                   |
| France           | 2                                                      | 1                                                   |
| Norway           | 10                                                     | 7                                                   |
| Singapore        | 38                                                     | 4                                                   |
| Taiwan           | 6                                                      | -                                                   |
| UK               | 1                                                      | 1                                                   |
| USA              | 81                                                     | 25                                                  |
| **Total**        | **380**                                                | **143**                                              |