

Supplement 3 - debris-rich ice logging 2025/2026

795

796 November 27, 2025

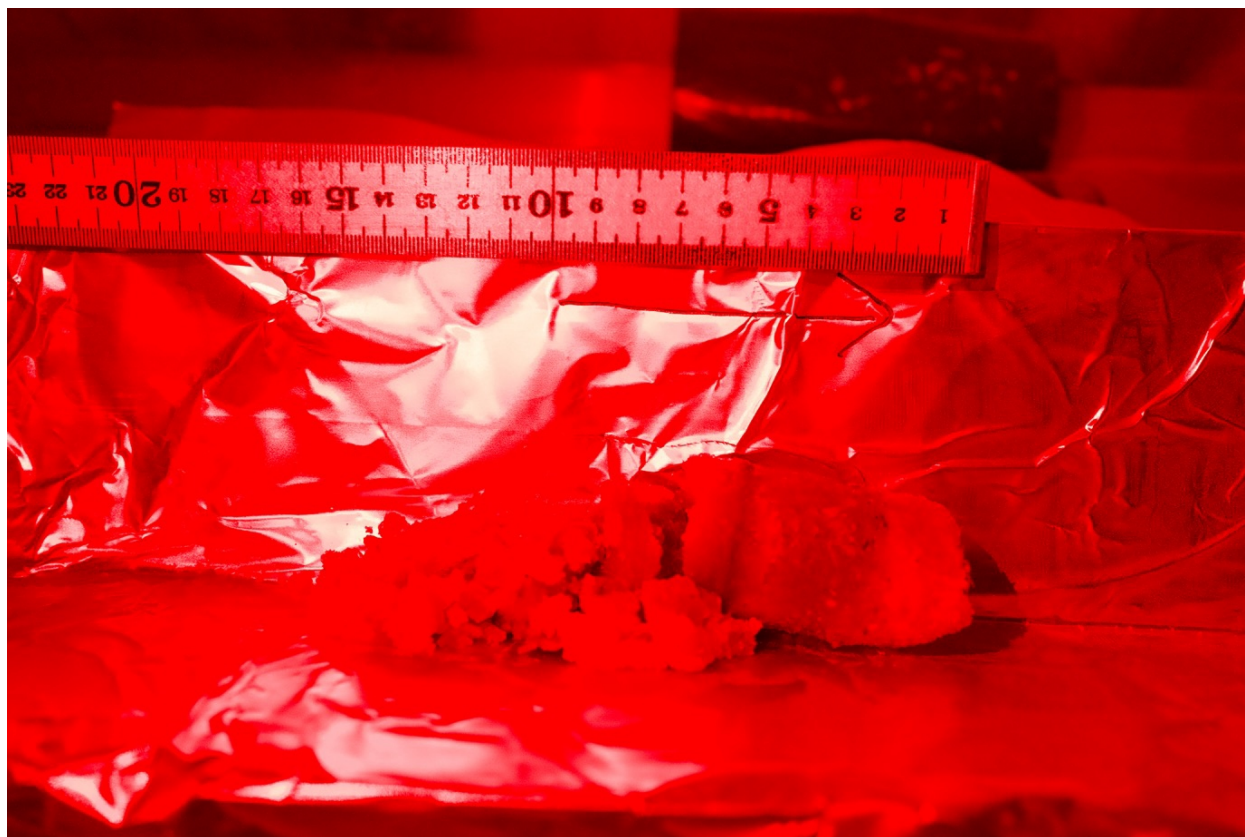
797 15 cm of core brought up.

798 Name: bag RD#1-25-26

799 Loggers depth: Not available

800 Description: 0-7cm from top (of drilled core section), best preserved and most consolidated with
801 basal material content low. From 2-4 cm from top, the core is uniformly muddy with small
802 sediment fragments visible, somewhat layered structure. 8 cm to the bottom, significantly
803 fragmented, likely due to exposure to the drilling fluid liquid. When extracting it from the drill,
804 drilling fluid came out. Interpretation: probably melted ice that re-solidified after the drilling
805 activity.

806 Processed under red light conditions.



807

808 *Figure S3_1: Bag RD#1-25-26 (15 cm) with red light. Top on the right.*

809 November 28, 2025

810 4,7 cm of core brought up.

811 Name: bag RD#2-25-26

812 Description: preserved and mostly consolidated ice. The basal material content is low. Small
813 sediment fragments are visible in a somewhat layered structure. When extracting it from the drill, a
814 lot of drilling fluid came out. Interpretation: probably melted ice that re-solidified after the drilling
815 activity.

816 Logged under red light conditions.



817

818 *Figure S3_2: Bag n. RD#2-25-26 (4,7 cm) top on the left.*

819

820

821 November 29, 2025

822 Core / basal material brought to surface.

823 Name: Bag RD#3-25-26

824 Description: Inconsistent ice extracted without a core catcher. For this reason, the bottom end, as
825 well as two pieces of ice that fell out at the top during core extraction or drill travel. These pieces
826 were exposed to sunlight. Everything taken out and logged under red light.



827

828 *Figure S3_3: Bag n. RD3-25-26, top to the left.*



829
830 *Figure S3_4: Bag n. RD3-25-26. Left: The two pieces that fell out at the top of the drill. Right: refrozen material in and around the*
831 *drillhead.*

832 November 30, 2025

833 Core was brought up.

834 Name: Bag RD#4-25-26

835 Description: Inconsistent ice and pebbles extracted without core catchers on the drill. Under red
836 light conditions the size of the pebbles seems to be a bit bigger than before.



837

838 *Figure S3_5: Bag n. RD#4-25-26.*

839

840 December 04, 2025

841 6,6 cm of core was brought up.

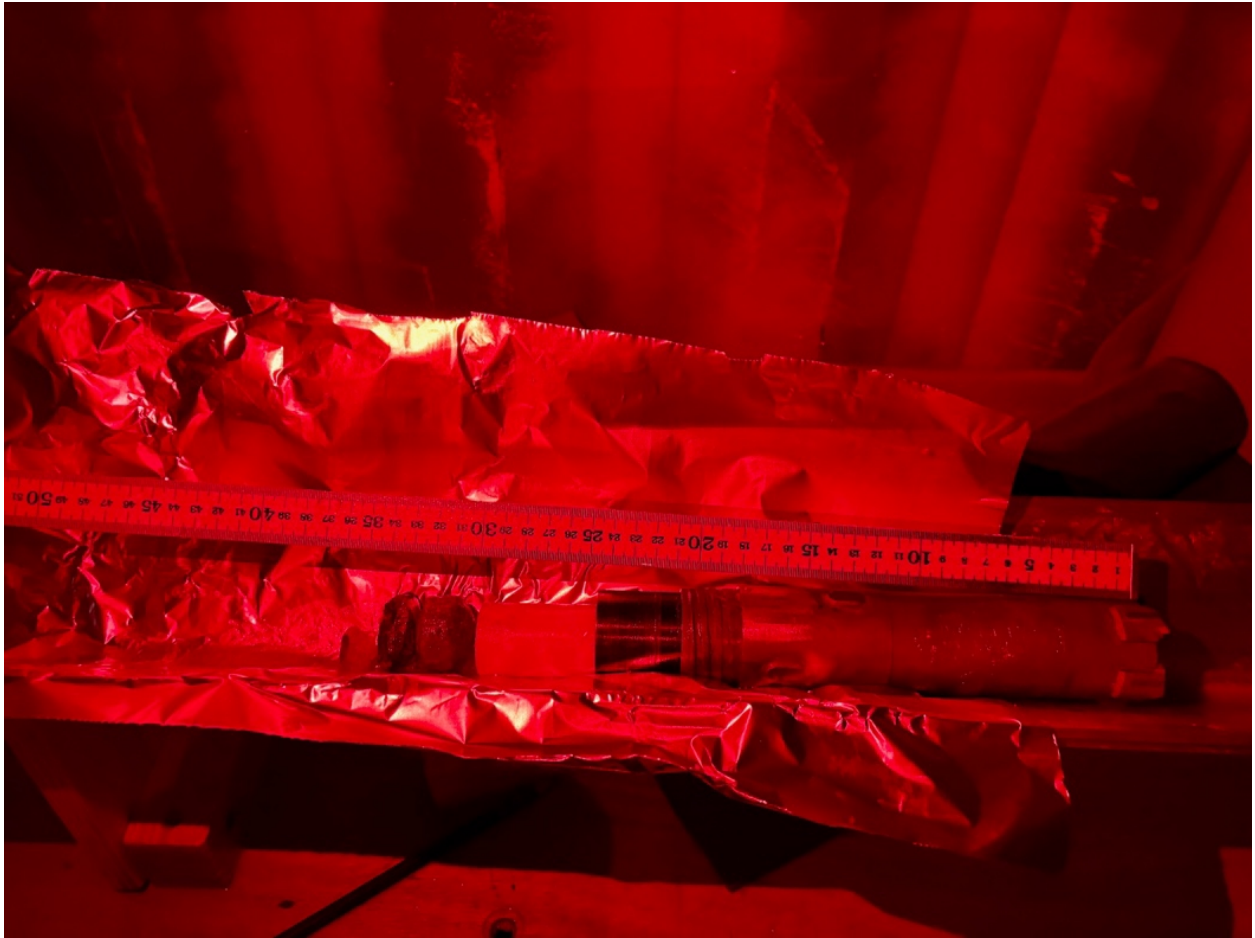
842 Name: Bag RD#5-25-26

843 Three well-preserved and highly consolidated pieces were recovered. The first one on the left
844 corresponds to the top of the sample: it consists of a small ice fragment with a possible piece of
845 sediment on its upper part. The middle piece—approximately 1.5 cm long—contains a high
846 proportion of rock material and is noticeably darker than the other recovered fragments. The piece
847 on the right corresponds to the bottom of the sample and consists of about 3 cm of ice with clearly
848 visible sediment inclusions. The white plastic piece on the right (right of the measuring stick) is
849 used for core extraction.



850

851 *Figure S3_6: Bag n. RD5-25-26: top on the left.*



852

853 *Figure S3_7: Bag n. RD5-25-26. top on the left.*