

## Abundant dissolved genetic material in Arctic sea ice Part II: Viral dynamics during autumn freeze-up

R. Eric Collins · Jody W. Deming

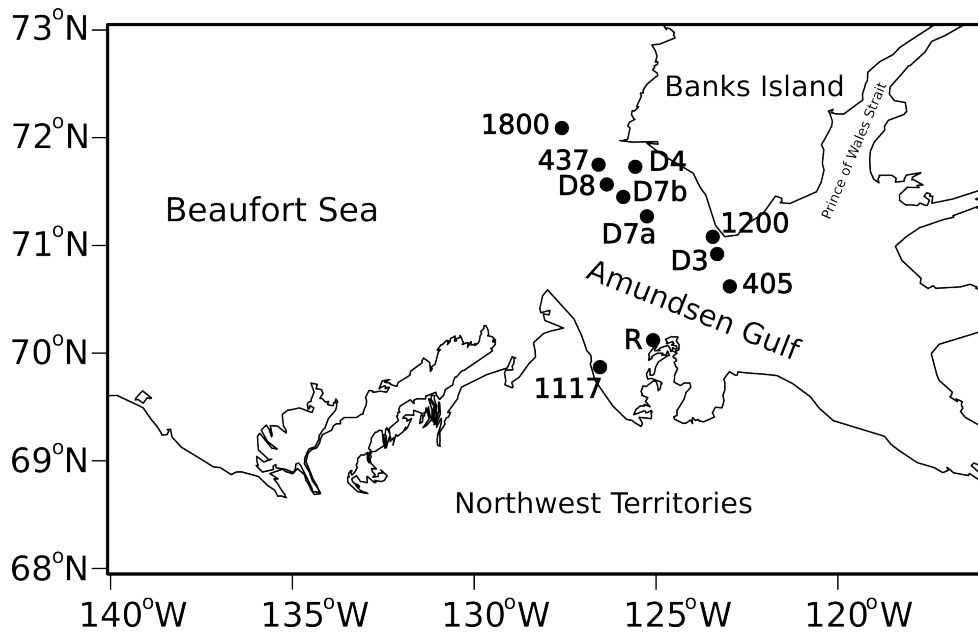
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R.E. Collins  
School of Oceanography and Astrobiology Program, University of Washington  
Box 357940, University of Washington, Seattle, WA, USA  
Tel.: (905) 525-9140 ext. 27686  
Fax: (905) 546-0463  
E-mail: rec3141@ocean.washington.edu  
*Present address:* of R.E. Collins  
Origins Institute, McMaster University  
GSB 315, McMaster University, Hamilton, ON, Canada L8S4L8

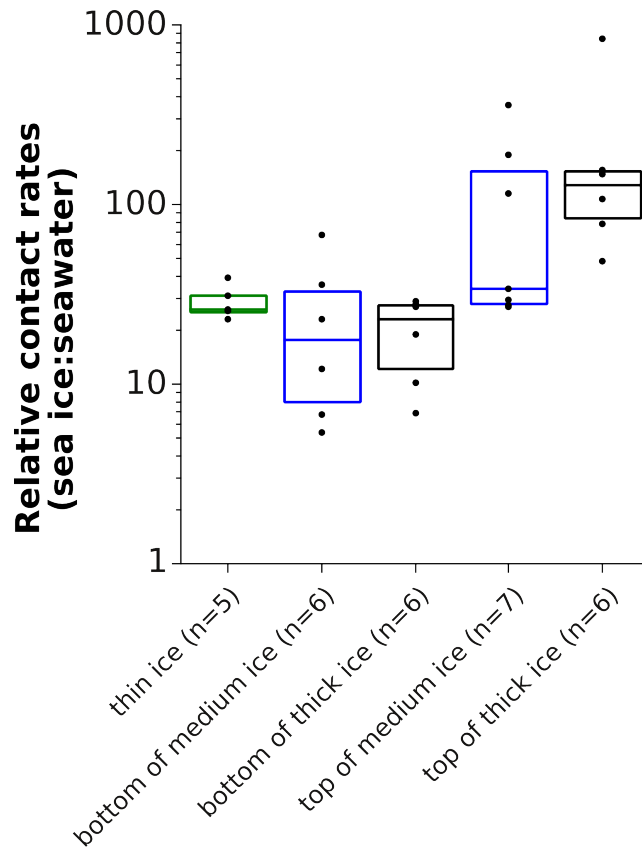
J.W. Deming  
School of Oceanography and Astrobiology Program, University of Washington  
Box 357940, University of Washington, Seattle, WA, USA

Station	Date (day of 2007)	Latitude	Longitude	Thickness (cm)	Ice Type	Ice Class (top)	Ice Class (bottom)
D3	29 Nov (333)	70.922 N	123.317 W	4	nilas	nd	nd
1200	20 Nov (324)	71.076 N	123.438 W	6	consolidated pancakes	nd	nd
1800	26 Nov (330)	72.088 N	127.592 W	9	nilas	granular/columnar	nd
D4	02 Dec (336)	71.730 N	125.564 W	33	medium first year pack	granular	columnar
1117	16 Nov (320)	69.872 N	126.542 W	35	medium first year landfast	granular	columnar
R	14 Nov (318)	70.125 N	125.081 W	37	medium first year landfast	nd	nd
437	22 Nov (326)	71.749 N	126.576 W	66	thick first year pack	granular/columnar	columnar
D7a	10 Dec (344)	71.258 N	125.299 W	78	thick first year pack	granular	nd
D7b	14 Dec (348)	71.449 N	125.961 W	76	thick first year pack	nd	nd
D8	16 Dec (350)	71.479 N	126.327 W	—	—	—	—

Supplementary Table 1: Summary of sampling stations and ice core characteristics



Supplementary Figure 1: Map of sampling stations in western Amundsen Gulf and the Canadian Shelf of the Beaufort Sea



Supplementary Figure 2: Predicted virus-bacteria contact rates in sea ice relative to seawater from western Amundsen Gulf and the Canadian Shelf of the Beaufort Sea. Rates were calculated relative to underlying seawater for thin ice (< 10 cm thick) and for the top and bottom 10 cm of medium thickness ice (33–37 cm), and thick ice (66–78 cm). Lower and upper limits of boxplots indicate 25% and 75% quartiles, respectively; center line indicates median