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Supplement of

Impacts of a lengthening open water season on Alaskan coastal communities: deriving locally relevant indices from large-scale datasets and community observations

Rebecca J. Rolph et al.

Correspondence to: Rebecca J. Rolph (rjrolph@alaska.edu)

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Supplementary Table S1.

Dates in mm/dd/yy	Date of false break-up	Date of false freeze-up
Kotzebue		
2004	05/28/04	10/24/04
2005	06/11/05	
2006	06/27/06	10/28/06
2007		10/24/07
2009	06/06/09	
2010	06/16/10	
	06/18/10	
2011	05/27/11	11/16/11
	06/02/11	
2012	06/09/12	11/10/12
Shishmaref	Date of false break-up	Date of false freeze-up
1982		11/06/82
1985		11/02/85
2002		12/01/02
2002		12/12/02
2003	05/30/03	11/20/03
	06/02/03	
2004	05/29/04	11/14/04
		11/17/04
		11/26/04
		12/03/04
2005	06/07/05	11/08/05
		11/18/05
2006	06/22/06	11/25/06
2007		11/20/07
		11/29/07
		12/03/07
2008		11/05/08
2011		11/21/11
2012	06/07/12	
2013		11/27/13
		11/30/13
Utqiagvik	Date of false break-up	Date of false freeze-up
1984	08/14/84	
1987	07/22/87	09/19/87

1990		09/30/90
1995	07/16/95	09/05/95
2002	08/08/02	10/21/02
		10/23/02
		10/28/02
2003		10/24/03
2005	07/28/05	
	07/30/05	
2006	08/21/06	
	08/29/06	
2007	07/07/07	
	07/09/07	
2008	07/25/08	
2012	06/08/12	
	07/04/12	
	07/10/12	
2013	06/16/13	10/25/13
	06/27/13	
	07/04/13	
2014	06/27/14	

Table S1. The dates of the ‘false freeze-ups’ and ‘false break-ups’ for Kotzebue, Shishmaref, and Utqiagvik. Sea ice concentration data obtained from ERA-Interim.