

Table 4: 渦鞭毛藻シスト化石の産出状況 (美岬大橋セクションおよび能取漁港北東部: Fig. 3e-f, 呼人層 (能取湖東岸)). Ab: 網走層. *Sp.h*: *Spiniferites hexatypicus* 帯, *Tri.*: *Trinovantedinium* spp. 帯, Bai: バイラギ沢.

Table 4: Occurrence chart of selected dinoflagellate cysts taxa (Misaki Bridge section and Northeast area of the Notoro Fishing Harbor; Fig. 3e-f, Yobito Formation (Eastside of Notoro Lake)). Ab: Abashiri Formation, *Sp.h*: *Spiniferites hexatypicus* Zone, *Tri.*: *Trinovantedinium* spp. Zone, Bai: Bairagi-sawa.

Formations (Kawakami et al., 2018)	Ab	Yobito Fm.									
Formations (Sato and Mitsunashi, 1970)	Ab	Notoro Fm. (East side of the Notoro Lake)									
Dinocyst Zones	Sp.h	Sel. Nephroides							Tri.		
Diatom Zones (NPD)	Not studied										
Sampling sections	Masuno-sawa				Misaki O-hashi				Bai.		
Sample No.	20161108-02	20161108-06	20161108-10	20161108-11	20141106-01	20141106-03	20141106-05	20141106-12	20141106-14	20141107-08	
Dinoflagellate cysts											
Achomosphaera ramulifera	8										
Achomosphaera spongiosa	3	2									
Achomosphaera spp.	20	3	2	2		5	2	9		1	
Brigantedinium spp.	3	7	5	3	16	5	2	3	4	10	
Capillicysta fusca	16	7					3			1	
Cleistosphaeridium placacanthum	3				1						
Cleistosphaeridium spp.	1	1						2	1		
Filisphaera filifera	5	6	4	19	4	7	2	3		15	
Lejeunecysta convexa	9				1	2	2				
Lejeunecysta hyalina	14	8		4	5	2	4	2		2	
Lejeunecysta sp. C	4										
Lejeunecysta spp.	37	28	3	9	14	14	10	10	8	13	
Melitasphaeridium spp.	3		1								
Operculodinium centrocarpum	6			1	2	1	2	1	3	2	
Operculodinium israelianum	2	1				4				1	
Operculodinium wallii	1						5				
Operculodinium spp.	17	24	6	7	9	40	20	14	12	30	
Reticulatosphaera actinocoronata	1			1							
Selenopemphix brevispinosa	3	14	21	4	4		2	3	3	3	
Selenopemphix nephroides	1	2		7	7	8	12		7	15	
Selenopemphix spp.	4	7	2		11	5	4	2	4	17	
Spiniferites adnatus	3	1		1			1	1			
Spiniferites aquilonius sensu. Matsuoka and Bujak	1									3	
Spiniferites bulloideus	2										
Spiniferites ellipsoideus	4			2		2			2		
Spiniferites elongatus	5				1	2	1			1	
Spiniferites hexatypicus	14				1					1	
Spiniferites cf. hexatypicus	3										
Spiniferites membranaceus	3					1			1		
Spiniferites pseudofurcatus	1									1	
Spiniferites ramosus gracilis	2										
Spiniferites ramosus ramosus	10				1	1	2				
Spiniferites spp.	45	2	3	4	3	7	10	1	2	7	
Tanyosphaera sp.	1										
Tectatodinium pellitum	1		3	4					3	7	
Tectatodinium spp.	15	8	6	35	6	3	5		5	24	
Impagidinium sp.		1									
Nematosphaeropsis labyrinthus		1	2	9			7		3		
Selenopemphix quanta		3								2	
Bitectatodinium tepikiense			4	6			4		5	13	
Nematosphaeropsis lemniscata			1						2		
Batiacasphaera minuta				6						3	
Batiacasphaera spp.				3							
Lejeunecysta granosa			1				1				
Lingulodinium sadoense				1						1	
Lingulodinium spp.				1			8	1	1		
Areoligera senonensis						4					
Diphyes spp.						1	2				
Trinovwntedinium spp.						3				11	
Areoligera spp.								1			
Trinovantedinium sp. B										12	
Trinovantedinium sp. C										1	
dinocyst gen. et sp. indet.	9		2			7	7				
Acritarchs											
Ascotomocystis spp.			1								
Quadrina spp.	4						1		1		
Number of species (diversity)	26	10	6	14	10	12	14	5	9	19	
Total counts	284	126	66	130	86	124	119	53	67	197	