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Funding agency: NSF/ARCSS

PROPOSED BUDGET DETAILS

Institution: University of Alaska Fairbanks **Cryoturbation-Ecosystem interactions**

Principal Investigator: Donald A. Walker **Duration:** 1/1/2002-12/31/2006

A. A. SALARIES AND WAGES	No. % Time	Period (mo.)	Rate	Year					Total	
				1	2	3	4	5		
D. Walker, PI	1.00	3.0	\$ 7,710	\$ 23,131	\$ 23,825	\$ 24,540	\$ 25,276	\$ 26,034	\$ 122,807	
V. Romanovsky, Co-PI	1.00	1.0	\$ 6,095	\$ 6,095	\$ 6,277	\$ 6,466	\$ 6,660	\$ 6,860	\$ 32,357	
C-L, Ping, Co-PI	1.00	1.0	\$ 6,550	\$ 6,550	\$ 6,747	\$ 6,949	\$ 7,158	\$ 7,372	\$ 34,777	
R. Peterson, Post-doc, Co-PI	1.00	6.0	\$ 3,259	\$ 19,553	\$ 20,140	\$ 20,744	\$ 21,366	\$ 22,007	\$ 103,809	
			\$	\$ 55,329	\$ 56,989	\$ 58,699	\$ 60,460	\$ 62,273	\$ 293,750	
J. Knudson, Proj. Coordinator, Data manager	1.00	6.0	\$ 2,734	\$ 16,405	\$ 16,897	\$ 17,404	\$ 17,926	\$ 18,464	\$ 87,096	
G. Michaelson, soil scientist	1.00	1.0	\$ 4,000	\$ 4,000	\$ 4,120	\$ 4,244	\$ 4,371	\$ 4,502	\$ 21,237	
H. Maier, System manager, RA	1.00	2.0	\$ 5,328	\$ 10,657	\$ 10,976	\$ 11,306	\$ 11,645	\$ 11,994	\$ 56,578	
M. Raynolds, Research Assoc., GIS Tech, R/	1.00	6.0	\$ 3,500	\$ 21,000	\$ 21,630	\$ 22,279	\$ 22,947	\$ 23,636	\$ 111,492	
Jamie Hollingsworth	1.00	3.00	\$ 2,801	\$ 8,402	\$ 8,654	\$ 8,914	\$ 9,181	\$ 9,457	\$ 44,607	
		18.00	\$	\$ 60,463	\$ 62,277	\$ 64,146	\$ 66,070	\$ 68,052	\$ 321,009	
Graduate student, RA Academic	2	0.50	\$ 4,796	\$ 4,796	\$ 4,940	\$ 5,088	\$ 5,241	\$ 5,398	\$ 25,462	
Graduate student, RA Summer	2	1.00	\$ 4,796	\$ 9,592	\$ 9,880	\$ 10,176	\$ 10,481	\$ 10,796	\$ 50,924	
			\$	\$ 14,388	\$ 14,819	\$ 15,264	\$ 15,722	\$ 16,194	\$ 76,387	
Total Salaries and Wages			\$	\$ 130,180	\$ 134,086	\$ 138,108	\$ 142,252	\$ 146,519	\$ 691,145	691145
C. B. FRINGE BENEFITS										
D. Walker, PI			26.8% \$	\$ 6,199	\$ 6,385	\$ 6,577	\$ 6,774	\$ 6,977	\$ 32,912	
V. Romanovsky, Co-PI			26.8% \$	\$ 1,633	\$ 1,682	\$ 1,733	\$ 1,785	\$ 1,838	\$ 8,672	
C-L, Ping, Co-PI			26.8% \$	\$ 1,755	\$ 1,808	\$ 1,862	\$ 1,918	\$ 1,976	\$ 9,320	
R. Peterson, Post-doc, Co-PI			26.8% \$	\$ 5,240	\$ 5,397	\$ 5,559	\$ 5,726	\$ 5,898	\$ 27,821	
G. Michaelson, soil scientist			19.4% \$	\$ 4,396	\$ 4,528	\$ 4,664	\$ 4,804	\$ 4,948	\$ 23,342	
J. Knudson, Research Assoc.			26.8% \$	\$ 1,072	\$ 1,104	\$ 1,137	\$ 1,171	\$ 1,207	\$ 5,691	
H. Maier, GIS tech, System manager			25.8% \$	\$ 2,856	\$ 2,942	\$ 3,030	\$ 3,121	\$ 3,214	\$ 15,163	
M. Raynolds, Research Assoc.			34.5% \$	\$ 5,628	\$ 5,797	\$ 5,971	\$ 6,150	\$ 6,334	\$ 29,880	
Graduate student, RA			7.9% \$	\$ 758	\$ 780	\$ 804	\$ 828	\$ 853	\$ 4,023	
Jamie Hollingsworth			34.5% \$	\$ 2,899	\$ 684	\$ 704	\$ 725	\$ 747	\$ 3,524	
Total Benefits			\$	\$ 32,437	\$ 31,108	\$ 32,042	\$ 33,003	\$ 33,993	\$ 162,583	162583
D. C. PERMANENT EQUIPMENT										
		No.	\$ Each							
Snow fence		1	\$ 15,000	\$ 15,000					\$ 15,000	
Weatherproof field computers		3	\$ 4,000	\$ 12,000	\$ 12,000	\$ 12,000			\$ 36,000	
Total Permanent Equipment			\$	\$ 27,000	\$ 12,000	\$ 12,000	\$ -	\$ -	\$ 51,000	51000
E. D. ii. TRAVEL, DOMESTIC										
	Each	Trips	Persons	Days						
Field work in Alaska										
Fbks-Prudhoe RT	500	2	4	\$	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 20,000	20000
									\$ -	
National and LAll meetings									\$ -	

Fbks-Seattle RT	500	2	6	\$	6,000	\$	6,000	\$	6,000	\$	6,000	\$	6,000	\$	30,000
Per diem: \$150/day x 5 days	150	2	6	\$	5,400	\$	5,400	\$	5,400	\$	5,400	\$	5,400	\$	27,000
Registration: \$150	150	2	6	\$	1,800	\$	1,800	\$	1,800	\$	1,800	\$	1,800	\$	9,000
															\$ -
															\$ -
Air-fare, RT Fbks-Yellowknife, Reconne 2000	1	3		\$	6,000										6,000
Air fare, RT Fbks-Yellowknife, field wor 2000	1	10				\$	20,000	\$	20,000	\$	20,000	\$		\$	60,000

Total Travel				\$	23,200	\$	37,200	\$	37,200	\$	37,200	\$	17,200	\$	152,000	152000
E. Participant support																0
Fairbanks-Switzerland RT, 2003 Permafrost Conference																0
Airfare, ground transport	2000	1	10		\$20,000					\$	20,000				20000	
Per diem	45	5	10		\$2,250					\$	2,250				2250	
Lodging	100	5	10		\$5,000					\$	5,000				5000	
Car rental	100		5		\$500					\$	500				500	
RT tickets to Fairbanks, synthesis meeting Year 5										\$	-				0	
Airfare, ground transport	1000	1	5						\$20,000	\$	20,000				20000	
Per diem	45	5	10						\$2,250	\$	2,250				2250	
Lodging	100	5	10						\$5,000	\$	5,000				5000	
Car rental	100		5						\$500	\$	500				500	
										\$	-				0	
Total participant support					\$0		\$27,750		\$0		\$0		\$27,750		\$55,500	55500

G. OTHER DIRECT COSTS

	No.	\$ Ea.													
Supplies/Instrumentation															
Temperature sensor	4	\$ 340	\$	1,360						\$	1,360				1360
Anemometer	4	\$ 855	\$	3,420						\$	3,420				3420
Sonic snow measuring devices (SR50 Campbell)	7	\$ 855	\$	5,985						\$	5,985				5985
Soil moisture probes (Vitel Inc.)	9	\$ 280	\$	2,520						\$	2,520				2520
Temperature logger (MRC, multiple depths)	12	\$ 750	\$	9,000						\$	9,000				9000
Soil heat flux plates (HFT3 Campbell)	18	\$ 315	\$	5,670						\$	5,670				5670
Data logger (Campbell CR10X)	4	\$ 1,190	\$	4,760						\$	4,760				4760
Multiplexer (Campbell AM416)	4	\$ 575	\$	2,300						\$	2,300				2300
Weather tower (Campbell CMR/CM10)	4	\$ 325	\$	1,300						\$	1,300				1300
Solar panel (HD 10 watt)	4	\$ 200	\$	800						\$	800				800
12-volt batteries	8	\$ 100	\$	800						\$	800				800
Heavometers	12	\$ 200	\$	2,400						\$	2,400				2400
Campbell instrument shelters	4	\$ 250	\$	1,000	\$	500				\$	1,500				1500
Expendable supplies		\$ 1,000	\$	-	\$	1,000	\$	1,000	\$	1,000	\$	1,000	\$	4,000	4000
Total Supplies			\$	41,315	\$	1,500	\$	1,000	\$	1,000	\$	1,000	\$	45,815	
Services															0
Computer services (maintenance contracts, software licenses, system management, repair, replacement)			\$	10,000	\$	10,000	\$	10,000	\$	10,000	\$	10,000	\$	50,000	50000
Communication, long distance services			\$	800	\$	828	\$	857	\$	887	\$	918	\$	4,290	4290
															0
Aerial photographs and remote sensing products, Ikonos imaç		\$ 3,000	\$	3,000	\$	3,000	\$	3,000	\$	3,000	\$	6,000			6000
Soils analysis			\$	23,000	\$	23,000	\$	23,000	\$	23,000	\$	23,000	\$	115,000	115000
Total Services			\$	36,800	\$	36,828	\$	33,857	\$	33,887	\$	33,918	\$	175,290	
Tuition remission, on campus Year 1	2	6048	\$	48,896	\$	12,096					\$	12,096			12096
Tuition remission, on campus Year 2-5	2	3096					\$	6,192	\$	6,378	\$	6,569	\$	6,766	25905
Total Tuition			\$	12,096	\$	6,192	\$	6,378	\$	6,569	\$	6,766	\$	38,001	
SUBCONTRACTS:															0
U. of Virginia, H. Epstein, Co-PI			\$	66,837	\$	65,628	\$	68,356	\$	68,702	\$	69,177	\$	338,700	338700
International Institute of Tropical Forestry, Bill Gould, Co-PI			\$	59,472	\$	59,586	\$	59,475	\$	59,493	\$	59,227	\$	297,254	297254
U. of Cincinnati, W. Krantz, Co-PI			\$	10,000	\$	10,000	\$	10,000	\$	10,000	\$	10,000	\$	50,000	50000

Total Subcontract	\$	136,309	\$	135,214	\$	137,831	\$	138,195	\$	138,404	\$	685,954	685954
													0
Total Other Direct Costs	\$	226,520	\$	179,734	\$	179,066	\$	179,651	\$	180,088	\$	945,060	945060
													0
													0
TOTAL DIRECT COSTS	\$	439,338	\$	421,879	\$	398,416	\$	392,106	\$	405,550	\$	2,057,288	2057288
base	\$	323,933	\$	250,722	\$	247,207	\$	247,341	\$	232,630	\$	1,301,833	1301833
INDIRECT COSTS													0
51.3% of MTDC		166,177		128,620		126,817		126,886		119,339		667,840	667840
H.													
TOTAL COSTS PER YEAR	\$	605,515	\$	550,499	\$	525,233	\$	518,992	\$	524,890	\$	2,725,128	2725128
I. TOTAL REQUESTED PER YEAR	\$	605,515	\$	550,499	\$	525,233	\$	518,992	\$	524,890	\$	2,725,128	2725128
TOTAL REQUESTED FOR 5 YEARS	\$	2,725,128											

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