

Arthropod

Opiliones

also for
Catena

New columns?

Families for Hemiptera?

Ants

Mites

Flying insects other term.

Taxonomy - Follow Borror et al.

Column for "DAYS OPEN"

Use 4-digit year e.g. 1999, 2000

Consistent 4-digit web codes

Center all columns

Data sheet - columns for major tenebs (top 8)

See Boris re: EMPL vs EMCO

Consistent columns in data sheet for web & Catena

web arth

veg

rodents

} 1 ARS #

Project Summary Sheet – Year 2000

is this part of
AES #118
?

Project Name Long-Term Monitoring Project - Arthropod Abundance on
Trapping Webs

Project Number _____

? Principal Investigator(s) Paul Stapp

Dates of Data Collection 5 May 2000, 9 June 2000, 11 July 2000, 7 AUG 2000

Location of study area(s) Small mammal trapping webs on CPER
sections 13 NW, 13 SW, 24, 25, 26, 27

Full Names of Data Collectors 2000 Field Crew: Laurel Hartley, Nicole Kaplan, Patrick Rey,
Craig Galman, Matt Cooper, Zach Deegan, Jennifer Lee, Kate Woodmansee, Kathy Maclean

Summary of Data Collected (How are data sheets organized? How many pages are in each section? etc.)

<u>Date</u>	<u>Sites</u>	<u># of pages</u>
May 2000	all 6 webs	6
June 2000	all 6	6
July 2000	all 6	6
AUG 2000	all 6	6
Sept 2000	all 6	6

Questions and Concerns

Date copies of data sheets were sent to PI(s) _____

Date copies of data sheets were sent to SGS-LTER office _____

Names of any other persons given copies of data sheets _____

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 27DATE/TIME OPENED: 01 May 2000-11:45 DATE/TIME CLOSED: 05 May 2000-11:45OBSERVERS: M.O. Liguist - L.M. Hartley - N.E. KaplanCURRENT WEATHER: Sunny - Clear 70sGENERAL WEATHER DURING SESSION: dry, warm, sunny 80s

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1			2ELEX	4PAEL	1MELOD		1CHNI		
A2			12ELEX	1					
A3			1ELOR		1SILPH		1CHNI	1LYCO	1LEPIDLAEVME
A4			5ELEX	2	1CURCU				1LEPIDLAEVME
A5			1ELOR	2PAEL					
B1			1ELEX	1PAEL					5FORM
B2			1ELHI 1ELEX	1					2 FORM 1 ACARID
B3			3EMMU 1ELFU 3ELEX	2	1SCARAB				1LEPIDLAEVME 2FORM
B4			1ELHI 3ELEX			1GRYLL			
B5			1ELOB 4ELEX 1EMMU					1THOM	
C1			2ELEX		1SCARAB				
C2			6ELEX 1ELOB		1SCARAB				
C3			1ELEX	1	1SCARAB		1CHNI		
C4			1ELHI						20 ACARID
C5			9ELEX						
D1					1SCARAB				1ACARID 4FORM
D2			6ELEX						
D3			1ELEX		1CURCU				
D4			1ELFU						1LEPIDLAEVME 1ACARID
D5			1ELFU 1ELEX			1GRYLL			

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 26DATE/TIME OPENED: 01 May 2000-11:18 DATE/TIME CLOSED: 05 May 2000-11:18OBSERVERS: M.D. LINDQUIST - L.M. HARTLEY - N.E. KAPLANCURRENT WEATHER: Sunny - Clear 70sGENERAL WEATHER DURING SESSION: dry, warm, Sunny 80s

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1		X							
A2			1 ELEX						
A3			4 ELEX						1 LEPID LARVA 2 FORM
A4			7 ELEX	1				1 LYCO	4 FORM 1 MUTIL
A5			1 ELEX	6	1 CURCU			1 THDM	1 FORM 1 ACARID
B1			1 ELEX	2 PAEL					12 FORM
B2							2 PENT		1 LEPID LARVA
B3				4					1 LEAD LARVAE
B4			2 ELEX 1 ELPU	3				1 GNAP	3 FORM
B5			1 ELEX 1 EMPA	4			1 COREID	1 GNAP	3 ACARID
C1			1 EMMU					1 LYCO 1 THDM	2 ACARID
C2				3				1 THDM	1 LEPID LARVAE 1 MUTIL
C3				1					
C4			1 ELEX	7			1 PENT		
C5				1					1 APID
D1			8 ELEX					1 GNAP	
D2								1 GRAL	
D3			1 ELOR 1 ELEX	3				1 LYCO	
D4			1 ELPU 1 ELEX						2 LEPID LARVAE
D5				3					

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Arthropod Abundance on Trapping Webs

WEB CODE: 25DATE/TIME OPENED: 01 May 2000 - 11:00 DATE/TIME CLOSED: 05 May 2000 - 11:00OBSERVERS: M.D. Lippert - L.M. Hartley - N.E. KaplanCURRENT WEATHER: Sunny - Clear 70sGENERAL WEATHER DURING SESSION: dry, warm, sunny 80s

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1			7 ELEX	2	1 CURCU * 1 SILPH			3 THOM	
A2				2	1 SCARA 1 CURCU		1 CHVI		
A3			6 ELEX		1 CURCU			1 THEE1	
A4			1 ELEX	1					
A5			6 ELEX	2					
B1			1 ELEX						
B2			6 ELFA	1				2 GNAP 1 THOM	
B3								1 THOM	1 FORM
B4				1					3 FORM
B5			1 ELEX	2 CARAB	1 CURCU			1 THOM	2 APID 4 ACARID
C1			2 ELEX						1 APID 10 FORM
C2			1 ELEX	1					
C3				2					10 FORM
C4				1					1 APID 1 LEPID
C5			1 ELFA			1 ACRID			
D1			1 ELFA						2 APID
D2			1 ELEX		1 SCARAB			1 GNAP	1 APID 10 ACARID
D3			2 ELEX		1 SCARAB				2 APID
D4				1					5 FORM
D5									1 FORM

*COLLECTED

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 24NWDATE/TIME OPENED: 01 MAY 2000 - 10:30 DATE/TIME CLOSED: 05 May 2000 - 10:30OBSERVERS: M.O. Lindquist - L.M. Hartley - N.E. KaplanCURRENT WEATHER: Sunny - Clear - 70sGENERAL WEATHER DURING SESSION: dry, warm, sunny 80s.

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1									20 FORM
A2			1 ELHI					1 THOM	12 FORM
A3			1 ELEX						2 KARID
A4			1 ELOR 1 ELEX	1 PAEL					
A5			4 ELFU						
B1			1 ELFU					1 THOM	2 KARID
B2			1 ELOB					1 THOM	
B3			1 ELEX					1 LYCO 1 THOM	
B4			1 ELEX 1 ELFU					1 THOM	
B5				1				1 THOM 1 GNAP	2 APID
C1			1 ELOR	1 PAEL				1 THOM	4 FORM
C2			6 ELEX	1				1 THOM	
C3			1 ELHI 2 ELFU	3				5 THOM	
C4				1				1 THER	5 FORM
C5				1					10 FORM
D1						1 GRYL			
D2			10 ELEX	3	1 CURCU			1 THER	5 FORM
D3			2 ELEX 1 ELSU			1 GRYLAC			
D4			1 ELEX	1					3 FORM
D5									1 LEPID *

* Collected

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Arthropod Abundance on Trapping Webs

Entered by
C. Goodman
5/30/00

WEB CODE: 13 NWDATE/TIME OPENED: 01 May 2000DATE/TIME CLOSED: 05 May 2000OBSERVERS: M.D. Lindquist L.M. Hartley N.E. KaplanCURRENT WEATHER: Sunny - Clear - 70sGENERAL WEATHER DURING SESSION: dry, warm, sunny 80s

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1				1					2 FORM
A2				1 PAEL			1 GRILL		
A3			1 ELOR	1 PAEL					
A4				1				1 THOM	2 FORM
A5			4 ELOR 1 ELFU 1 ELOR				1 GRILL		
B1			1 ELFU						
B2				2	1 LARVAE				
B3					1 PAEL				4 FORM
B4		X							
B5									3 FORM
C1								1 SALT	
C2				1	1 CURCU 1 LAMPY				
C3									5 FORM 1 LEAD LARVAE
C4				3	1 CURCU		1		5 FORM
C5				5					10 FORM
D1				1					
D2								1 THOM	30 KARID LEPID LARVAE
D3								1 THOM	2 FORM
D4					1 UNKNOWN				
D5		X							

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Arthropod Abundance on Trapping Webs

WEB CODE: 13SWDATE/TIME OPENED: 01 MAY 2000 - 10:00 DATE/TIME CLOSED: 05 MAY 2000 - 10:00OBSERVERS: MD LINDQUIST - L.M. HARTLEY - N.E. KAPLANCURRENT WEATHER: CLEAR - SUNNY - FOS - LIGHT WINDGENERAL WEATHER DURING SESSION: CLEAR - SUNNY - DRY - BOS

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1				1				1 THOM	1 APID
A2			1 ELFU	2					3 FORM
A3				1 PAEL					
A4				3					4 FORM
A5				1					
B1									1 APID 4 FORM 1 DIPT
B2				1				1 GNAP	7 FORM
B3				2	1 CURCU			1 THOM 2 GNAP	7 FORM 2 ACARID
B4				2	1 CURCU				6 FORM
B5								1 THOM	1 ACARID 1 CHANE 3 APID
C1					1 MELOIDUNK			1 SALT	2 FORM
C2									1 APID 10 FORM
C3					1 PAEL 6			1 THOM	8 FORM 2 APID
C4									2 FORM
C5				1					1 APID - 20 FORM 1 WIND SCORPION
D1			1 ELOR 3 ELFU	7					2 ACARID
D2			1 ELFU	1				1 GNAP	2 FORM
D3									6 FORM
D4			2 ELFU					1 GRILL	2 LYCO
D5			1 ELFU 2 ELHI						

8/6/12

GENERAL WEATHER DURING SESSION: hot (90's F) low wind

[illegible]

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Arthropod Abundance on Trapping Webs

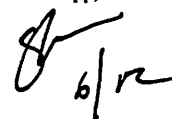
JS 6/12

WEB CODE: 25DATE/TIME OPENED: June 5 2000 AMDATE/TIME CLOSED: Jun 5 2000 11:30 amOBSERVERS: L. Hartley, C. Godman, M. CooperCURRENT WEATHER: 40% cloud cover, mid to high 80'sGENERAL WEATHER DURING SESSION: hot, mid to high 90's

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1			2 ELEX	2 Pael					1 Ant 1 Flea
A2			1 ELHI 3 ELEX	2 Carab					
A3			1 ELEX			1 Acrid		1 Lycos	12 Form
A4									1 unknown 1 Form
A5		✓							
B1			1 ELOB	1 Carab					2 Form
B2								1 Thom	6 Form
B3			3 ELEX	1 Carab	1 Curcu				20 unknown 3 Form baby bugs
B4			2 ELEX					1 Lycos	
B5								1 Lycos 2 Gnaph	
C1								1 Lycos 1 Gnaph	1 velvet ant
C2								1 Gnaph	
C3									1 Form
C4			1 ELEX					1 Lycos	
C5					1 Curcu 1 Melod			2 Gnaph	5 Form
D1			5 ELFL					1 Lycos	
D2			4 ELEX	2 Carab					1 Lep larvae
D3			8 ELEX 1 ELOB						
D4			1 ELEX	5 Carab	1 Curcu 1 Ceramb			1 Lycos	
D5			1 ELOB	4 Carab				1 Lycos	

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Arthropod Abundance on Trapping Webs


WEB CODE: 24DATE/TIME OPENED: 5 June 2000 AM DATE/TIME CLOSED: 9 Jun 2000 AM 10:40OBSERVERS: L. Hartley, C. Godman, M. CooperCURRENT WEATHER: 40% cloud cover, moderate wind, 85ish FGENERAL WEATHER DURING SESSION: hot, hot mid to high 90's F

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1			2 ELHI 1 ELFU	3 Pacl		1 Gryll		1 Lycos	10 Form
A2				1 Pacl				1 Lycos	
A3			1 ELHI	1 Carab	1 cactus bug 1 Curcu				1 wind scorpion
A4			1 ELOR			1 Gryll			
A5									1 FORM
B1								1 Daddy Long Legs	1 Form
B2								1 Lycos 1 mite	10 Form
B3			1 ELOR					1 Lycos	
B4								2 Gnaph	1 Larvae Lep 20 Ants
B5			1 ELOB 1 ELFU					2 Lycos	
C1			1 ELHI						1 FORM
C2			1 ELOR 4 ELFU			1 Gryll		1 Gnaph 1 Daddy	3 Form
C3			4 ELFU		1 Scarab				15 Form
C4			3 ELFU						
C5								2 Lycos	20 Form
D1				1 PAEL		1 Gryll	Bro. pinkish red		
D2						1 Gryll	Bro. pinkish red		lots of parts
D3		✓							
D4			1 ELOR						
D5			1 ELOB						

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Arthropod Abundance on Trapping Webs

6/12

WEB CODE: 26DATE/TIME OPENED: 5 June 2000 AM DATE/TIME CLOSED: 9 June 2000 12 noonOBSERVERS: L. Hartley, C. Godman, M. CooperCURRENT WEATHER: 60% cloud cover, light to moderate wind, mid 80° FGENERAL WEATHER DURING SESSION: Hot (90's F) low wind

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1								1 Lycos	
A2			2 ELEX	2 Carab				1 Lycos baby	1 Form
A3			1 ELFU		1 Scarab				
A4									4 Form
A5			3 ELEX		1 Scarab			1 Thom	2 Form
B1				2 Pael				2 Lycos	
B2				1 Carab				1 Gnaph	
B3			1 EMMU	1 Carab	1 Scarab			1 Lycos baby	1 Form
B4			1 ELFU			1 Gryll	2 Hemip		
B5			1 ELEX						1 Mutill 1 Form
C1									1 Form
C2			3 ELFU					1 Lycos	
C3			2 ELOB 1 ELFU						
C4								3 Lycos	
C5						1 Gryll			1 Form
D1			1 ELEX	1 Pael	1 Meloid			1 Gnaph	1 Mutill 1 Larvae 2 Form
D2			2 ELEX						
D3			1 ELFU 1 ELHI	1 Carab				1 Lycos 1 Gnaph	1 Form 1 Apidae
D4			1 ELEX 1 ELOR	1 Pael	1 Ceramb 1 Melod				1 Form
D5			1 ELOB 3 ELEX		1 Curcu			1 Lycos	

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Arthropod Abundance on Trapping Webs

6/12

WEB CODE: 13 SWDATE/TIME OPENED: June 5, 2000 AM DATE/TIME CLOSED: June 9, 2000 AMOBSERVERS: L. Hartley C. Godman M. CooperCURRENT WEATHER: 80% cloud cover, moderate wind, 80-85°FGENERAL WEATHER DURING SESSION: hot, 90's F

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1									6 Form
A2			1 ELFU	1 Carab	15 scarab				
A3			1 ELFU		1 melod 2 same family	as cactus bug			1 Form
A4			2 ELFU		1 melod			1 Daddy	
A5								1 Lycos	1 Form
B1			3 ELOR		9 Scarab 1 melod				
B2			1 ELFU	3 PAEL			2 Hemip		1 Form
B3									8 Form
B4			1 ELFU 1 ELGR						10 FORM 1 LARVAE
B5									1 Larval
C1					9 Scarab				
C2								1 salt	1 Form
C3				1 Carab	5 melod			1 mite 1 Graph	
C4			1 ELOR 1 ELFU			1 Gryll			
C5			1 ELHI						10 Form
D1				1 PAEL					1 Form 1 Apidae
D2			2 ELTR						2 Form
D3		✓							
D4			1 ELFU 1 EMMA	1 CARAB				1 Lycos 1 Salt	1 Form
D5			1 ELSU 1 ELLO			1 Gryll		1 Graph	10 Form 1 Larvae

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Arthropod Abundance on Trapping Webs

6/12

WEB CODE: 27DATE/TIME OPENED: June 5 2000 am DATE/TIME CLOSED: June 9, 2000 2:30 pmOBSERVERS: L. Hartley, C. Godman, J. LeeCURRENT WEATHER: 50% cloud cover, light wind, high 80'sGENERAL WEATHER DURING SESSION: hot, mid to high 90's

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1		✓							
A2			ELFW (1)						
A3				2 PAEL				1 GNAPH	
A4			6 ELOR					1 GNAPH	
A5			6 ELOR 3 ELEX	8 PAEL	2 Shilph,			1 Them	
B1									1 Form
B2			ELOR						
B3				1 carab				1 Them	
B4								1 Them	
B5			2 ELOB 2 ELEX					1 GNAPH	5 Form
C1			ELOR ELOB					lyces (1)	
C2					1 Curcu				10 Form
C3			3 ELOR 1 EMMU	1 Carab				1 Lyces 1 Gnaph	
C4			1 ELEX						
C5			1 ELEX						1 Apidae
D1			ELOR ELOB						
D2								1 Salt	
D3			4 ELEX 2 ELOB	1 Carab	1 Ceramby			1 Salt 1 Gnaph	
D4			1 EMPL	2 PAEL					
D5					1 Meloidae				

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 27DATE/TIME OPENED: 7 Aug 2000 10:00 AM DATE/TIME CLOSED: 11 Aug 2000 10:00 AMOBSERVERS: R.D. M.C. K.M. J.L. D.R.CURRENT WEATHER: Hot sunnyGENERAL WEATHER DURING SESSION: Hot sunny

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1			1 EMMU		2 CUSCU			1 UNK	
A2			1 ELFU						
A3			3 ELFU					GNAPH 1	2 ants 1 bee
A4			1 ELHI						
A5			1 ELHI	1	1 CHRYS			GNAPH 1	
B1			1 ELFU	1					
B2			2 EMMU			GRYAC 1			?
B3			1 ELHI 1 ELFU 1 ELEX						1 Lampyrid
B4			1 EMMU 4 ELHI						1 ant
B5			1 ELEX					LYCO 1	
C1				2				SALT 1	2 MUTIL
C2			1 ELEX					GNAPH LYCO 1	
C3			1 ELOR					LYCO 1	1 MUTIL 1 UNK
C4			2 ELEX 2					UNK Spider	3 ants
C5				1				LYCO 1	
D1			2 ELEX 1 ELFU	1		GRYAC 1			
D2			1 ELFU						
D3				2					
D4								GNAPH 1	
D5			1 ELEX 1 ELFU					LYCO 1	

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 26DATE/TIME OPENED: 7 Aug 2000 10 AM DATE/TIME CLOSED: 11 Aug 2000 10 AMOBSERVERS: Z. D. M. C. K. M. P. R. J. L.CURRENT WEATHER: Hot, SunnyGENERAL WEATHER DURING SESSION: Hot, Sunny

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1			<div style="background-color: yellow; padding: 5px;"> note: how to enter "Destroyed" (?) no place for comment -not entered. </div>						
A2									
A3								LYCO	MUTIL
A4				1					
A5		✓							
B1		✓							
B2			1 ELEX 1 ELFU			GRYAC			
B3									
B4			1 ELOR 1 ELOB					LYCO	MUTIL
B5			1 ELOR						
C1			1 ELHI						
C2			1 ELOR						1 ant
C3			1 ELEX						
C4				1					
C5		✓							
D1			1 ELOR						1 Ant
D2			1 ELEX						
D3			1 EMMU 2 ELOB						1 Ant
D4		✓							
D5			1 ELFU			ACRID			3 Ants

LOTS OF LOW DAMAGE

WEB CODE: 25

DATE/TIME OPENED: 7 Apr 2000 01M DATE/TIME CLOSED: 11 Apr 2000 9 1M

OBSERVERS: Z. D. M. C. K. M. D. P. J. L.

CURRENT WEATHER: Hot / Sunny

GENERAL WEATHER DURING SESSION: hot sunny

[illegible]

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

20/17

WEB CODE: 26DATE/TIME OPENED: 7 July 2000 DATE/TIME CLOSED: 11 July 2000 10:30OBSERVERS: L. Hartley, K. Maclean, P. Ray, J. LeeCURRENT WEATHER: warm, high 80's, 10% cloud coverGENERAL WEATHER DURING SESSION: hot, mid 90's, low moisture

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1			1 E1EX					1 Lycos	2 form
A2			1 E1EX						
A3		✓							
A4			2 E1EX				1 Hemip		7 form
A5								1 Gnaph	1 velvet ant
B1									1 form
B2			1 E1OB						
B3				2 Carab					
B4				1 Carab					3 Form
B5					1 Scarab			1 Lycos	
C1								2 Lycos	
C2								1 Gnaph	
C3				1 Pacl					
C4			1 E1OR						1 Form
C5			1 E1Fu				2 Corel		1 mantis 2 Form
D1			1 E1OB				1 Chm		5 Form
D2			1 E1EX 1 E1Fu		1 unk beetle				1 velvet ant
D3				1 Carab	1 Scarab		1 Chm	1 Lycos 1 Gnaph	
D4			1 E1OB					1 Lycos	
D5			3 E1OB 1 E1Fu						

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

2D 7/12

WEB CODE: 27DATE/TIME OPENED: 7 July 2000DATE/TIME CLOSED: July 10 2000 10:45OBSERVERS: L. Hartley, P. Ray, J. Lee, K. MacLeanCURRENT WEATHER: warm, high 80's F, 10% cloud cover, light windGENERAL WEATHER DURING SESSION: hot, mid 90's F, low moisture

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1			1 Elex					3 Acarina	
A2		✓							
A3			1 EIOB 1 EIFu			1 Gryac		1 Gnaph	
A4			1 Elob 2 EIFu 1 Elor 1 Elex			2 Gryac	1 hemip	1 lycos	1 form
A5				1 Pael					1 Form
B1		✓							
B2				1 Pael					
B3			3 EIFu						
B4			1 Elhi						1 Form
B5		✓							not flush w/ ground
C1			2 Elex					1 lycos	
C2			1 EIOB 3 EIFu	1 Pael		1 Gryll			
C3			1 Emmu 1 ELEX						
C4			1 Elhi 2 EIFu 4 Elex	1 Pael					2 Form
C5			1 EIFu					2 Acarina	
D1				1 Carab				1 Ther	
D2		✓							
D3								20 Acarina	2 Form
D4			1 Elex	1 Carab				1 lycos 1 Gnaph	2 Form
D5			2 Emmu 1 EIFu		1 Scarab				

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

20/11

WEB CODE: 13 ^{closer to ARS}

DATE/TIME OPENED: 7 July 2000 DATE/TIME CLOSED: 11 July 2000 9:00 am

OBSERVERS: L. Hartley, K. Marten, P. Ray, J. Lee

CURRENT WEATHER: warmish 80's F, 30% cloud cover,

GENERAL WEATHER DURING SESSION: hot, mid 90's F, dry

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1									1 Form
A2								← 1 Penta	
A3						2 Gryll			
A4		✓							
A5			1 EMCO						1 form
B1								1 Gnath	15 form
B2			3 EIfu					← 1 Pentabrid	
B3									3 form
B4			2 EIfu	1 carab					1 Form
B5									2 Form.
C1								1 Salt	
C2									1 Formicidae
C3			EIfu (1)						
C4			EIfu (1)						2 small spiders
C5			ELDB (1)						5 form
D1		✓							
D2									1 cricket 1 unk
D3			ELOR (1)						
D4			(1) ELDB						
D5			EMCO (2) EIfu (1) ELDB (1)						

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

Mc 7/17

WEB CODE: 25DATE/TIME OPENED: 7 July 2000 DATE/TIME CLOSED: 11 July 2000 10 amOBSERVERS: L. Hartley, K. Maclean, P. Ray, J. LeeCURRENT WEATHER: warm, upper 80's F, light wind, 10% cloud coverGENERAL WEATHER DURING SESSION: hot, mid 90's F, low moisture

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1				1 Carab					
A2			2 ELEX	1 Carab					
A3			2 EIfu					1 Lycos	
A4		✓							
A5			1 ELEX	1 Carab		1 nymph			
B1			1 EIfu						
B2		✓							
B3								1 Graph	
B4		✓							
B5					1 Scarab				
C1					1 Scarab				1 form
C2			1 EIfu						1 form
C3			1 E1hi					1 Ther	
C4			1 E10B						1 Apid 1 Form
C5								1 Lycos	
D1			1 EIfu						
D2			4 EIfu					1 Thom	
D3								1 Lycos	
D4			2 ELEX						
D5			1 E10B					1 Graph 3 Lycos	

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 13 SW ^{not ARS}

MC 7/17

DATE/TIME OPENED: 7 July 2000 DATE/TIME CLOSED: 11 July 2000 9:15 AMOBSERVERS: L. Hartley, P. Fay, J. Lee, K. MacleanCURRENT WEATHER: warm mid 80's, 30% cloud coverGENERAL WEATHER DURING SESSION: hot, sunny, dry, mid 90's F

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1				1 Pael					20 Form
A2			1 EIfu						4 Form
A3								1 Thom	2 Form
A4			2 EIfu 1 EICo	1 Pael				1 Lycos	4 Form
A5		✓							
B1			2 EIOB 1 EIfu						2 Form
B2			2 EIOB					1 Lycos	2 Form
B3			1 EIfu		1 Curcu	1 Gryac		1 Thom 1 Salt	1 Form
B4			1 EIOB						5 Form
B5			2 EIfu						1 Form
C1			2 EIOB	2 Carab					
C2			1 EIfu					2 Lycos	1 Form
C3			1 ELOR 1 ELTR		1 Scarab	1 Acrid			
C4			1 EIfu					1 Gnaph	
C5			1 EIOB		1 Scarab			3 Thom	
D1									1 form
D2			1 EIOB					1 Gnaph	2 Form
D3				Pael				1 Thom	1 form
D4			1 ELhi					2 Hemip 1 Gnaph	1 form
D5			1 Emmu	Pael		2 gryll			

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GENERAL WEATHER DURING SESSION: hot, mid 90's low moisture

[illegible]

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 13 NEDATE/TIME OPENED: 7 Aug 2000 9:00AM DATE/TIME CLOSED: 11 Aug 2000 9:00AMOBSERVERS: Z. Dorsan, M. Cooper, K. MacLean, J. Lee, J. P. RayCURRENT WEATHER: Hot and SunnyGENERAL WEATHER DURING SESSION: Hot and Sunny

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1		✓							
A2			ELOB 1						4 ants
A3				1					
A4		✓							
A5			ELOR 1						15 ants
B1				1					
B2			ELHI 1						
B3		✓							
B4					1 other unk				4 ants
B5						GRYAC 1		LYCO 1	3 ants
C1		✓							
C2			2ELFU ELHI 1 ELEX 1					GNAPH 1	3 ants
C3			ELHI 1		CURCU 1				1 ant
C4								other 1	
C5						GRYAC 1			3 ants
D1									3 ants
D2						GRYLL 1		LYCO 1 SALT 1	
D3									1 ant
D4						GRYAC 1		GNAPH 1	
D5					CURCU (2)				1 ant

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 13 SEDATE/TIME OPENED: 7 Aug 2000 9AM DATE/TIME CLOSED: 11 Aug 2000 9AMOBSERVERS: Z. Draper, M. Lounsbury, V. M. Lounsbury, P. Ray, S. LeeCURRENT WEATHER: Hot SunnyGENERAL WEATHER DURING SESSION: Hot Sunny

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1			2 ELOR		1 unk				1 ant
A2			ELOB	1					4 ants
A3			1 EMMU 1 ELOR					LYCO 1	
A4			1 ELOB						
A5			1 ELHI						
B1			2 ELOR 1 ELOB						1 ant
B2			2 ELOR 1 ELEX	2	2 SCARAB				5 ants
B3			1 EMMU	1				2 LYCO	4 ants
B4			1 ELFW						15 ants
no place to note (ELLO) - not entered			1 EMMU	1		GRYLL			1 ant
			2 ELOR 1 ELLO 1 ELSu	1					3 ants
						GRYAC 1			
			1 ELOB	1	1 unk beetle			GNAPH 1	
			EMMU 1 ASOP 1			GRYAC 1		GNAPH 1	
			ELHI 1 2 ELOR						
ELLO			1 ELOB 1 ELFW	1					10 ants
			1 ELOR	2					3 ants
			1 ELOB						
			1 ELLO 1 ELOR	1	CURCU 1 SCARAB 1				2 ants
D5			3 ELHI	1	SCARAB 1	GRYAC 1			5 ants

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 13 SWDATE/TIME OPENED: 7 Aug 2000 9 AM DATE/TIME CLOSED: 11 Aug 2000 9 AMOBSERVERS: Z. D. M.C. K.M. P.R. J.L.CURRENT WEATHER: Hot SunnyGENERAL WEATHER DURING SESSION: Hot Sunny

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1									1 skink 4 ant
A2			1 ELOB					LYCO 1	
A3			1 ELOR 1 EMML 1 ELEX					GNAPH 1	
A4			3 ELOR 1 ELFU 2 ELEX					LYCO 1	3 ANTS
A5			2 ELFU 1 ELOB						
B1			1 ELOR 1 EMEO						1 skink 10 ants
B2			1 ELTR			GRYLL 1			
B3		✓							
B4		✓							
B5			1 ELOB						
C1		✓							
C2			2 ELFU (mites on them)						
C3			1 ELFU 2 ELEX (mites)		2 CURCU	GRYAC 1		1 UNK	5 ants
C4								GNAPH 1	
C5				1					10 ants
D1			1 ELOB	1		3 GRYAC			5 ants
D2			1 ELFU					LYCO 1	10 ants 1 Myrmecodons
D3			2 ELOR			2 GRYAC			1 ant
D4			4 ELOR						
D5			1 ELH 1 ELFU 2 ELEX						

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 27DATE/TIME OPENED: 29 Sept. 2000/10:00 DATE/TIME CLOSED: 03 Oct 2000/10:00OBSERVERS: L. Hartley N. KaplanCURRENT WEATHER: warm, clearGENERAL WEATHER DURING SESSION: warm, clear (70-80s)

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1				2	1 CICI 2 CURCU			1 THOM	3 FORM
A2					1 CICI 3 CURCU		1	1 LYCOS	
A3			1 ELOR		2 CURCU			1 LYCOS	10 FORM
A4			1 ELOR		8 CURCU			1 GNAP	
A5			2 ELOR				1		
B1				1					
B2				1	1 CURCU	1 GRAC			
B3			1 ELOR			1 GRAC		1 THER	2 FORM
B4									1 FORM 1 Phalangida (daddy long legs)
B5					1 CURCU				
C1			1 ELH 1 EMMU		1 CURCU 1 COCC		1	1 GNAP	1 AZAR 12 FORM
C2			1 ELOR		3 CURCU				
C3			1 ASPD 1 EMMU		5 CURCU	1 GRAC		2 UNK.	
C4					5 CURCU			1 UNK.	10 FORM
C5			1 ELOR		3 CURCU				
D1				2	2 CURCU		1	1 LYCOS	10 FORM
D2					1 CURCU				2 FORM
D3			1 ELEX	1	3 CURCU				4 FORM
D4					2 CURCU	1 ACRID		1 GNAP	2 FORM
D5					1 CURCU				

WEB CODE: 135W

DATE/TIME OPENED: 29 Sept 2001

DATE/TIME CLOSED: 03 Oct. 2000/

OBSERVERS: L. Hartley N. Koplar

CURRENT WEATHER: Warm/Cloudy

GENERAL WEATHER DURING SESSION: clear warm / (70-80s)

[illegible]

WEB CODE: 13NW

DATE/TIME OPENED: 29 Sept. 2000 / 11:00

DATE/TIME CLOSED: 03 Oct. 2000 / 11:00

OBSERVERS: L. Hartley N. Kaplan

CURRENT WEATHER: Warm Cloudy

GENERAL WEATHER DURING SESSION: warm clear (70s-80s)

[illegible]

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 25DATE/TIME OPENED: 29 Sept 2000/10:00 DATE/TIME CLOSED: 03 Oct. 2000/10:00OBSERVERS: L. Hartley, N. KaplanCURRENT WEATHER: warmGENERAL WEATHER DURING SESSION: clear, warm (70-80s)

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1		X							
A2									3 DIPTERA
A3					5 CURCU			1 LYCOS	1 FORM
A4					1 CURCU				
A5				1					
B1		X							
B2		X							
B3		X							
B4		X							
B5				1					
C1				1	2 CURCU			1 LYCOS	1 LEPID LARVAE
C2			1 EUCO		6 CURCU				
C3					5 CURCU				1 LEPID LARVAE 2 FORM
C4			1 ROB						
C5		X							
D1								1 LYCOS	
D2			2 ELFU		2 CURCU				
D3		X							
D4		X							
D5		X							

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 26DATE/TIME OPENED: 29 Sept. 2000 / 10:00 DATE/TIME CLOSED: 03 Oct 2000 / 10:00OBSERVERS: L. Hartley N. KipinCURRENT WEATHER: warmGENERAL WEATHER DURING SESSION: clear, warm (70s-80s)

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1				2	1 CICH 3 CURCU				2 FORM
A2			1 ELEX		1 CURCU				
A3			1 EMMU 1 ELOR	1	2 CURCU	1 GRYP			3 FORM
A4				7		1 GRYP			
A5					1 CURCU			1 THER	
B1				1					10 FORM
B2				1	1 CURCU			1 LYCOS	3 FORM
B3			2 ELOR	1				1 THOM	5 FORM
B4		X							
B5				5					2 FORM
C1			1 ELHI						
C2		X							
C3		X							
C4						1 ACRID			
C5				2	1 CURCU				1 FORM
D1		X							
D2			1 EMMU			1 GRYP 2 GRYL			
D3			1 ELEX	3	1 CURCU			1 GNAP	4 FORM
D4			2 ASPO 1 ELEX	1	1 CURCU	1 GRYL			
D5					1 CURCU				

SGS-LTER Long-Term Monitoring Project

Arthropod Abundance on Trapping Webs

WEB CODE: 24NEDATE/TIME OPENED: 29 Sept 2000/11:00DATE/TIME CLOSED: 03 Oct 2000/11:00OBSERVERS: L. Hartley, N. KaplanCURRENT WEATHER: cloudy, warmGENERAL WEATHER DURING SESSION: clear, warm (70s-80s)

Trap	No. In Hoop	Empty	Tenebrionidae (list by Spp)	Carabidae	Other beetles (list Family)	Orthoptera	Hemiptera	Spiders	Other
A1			2EUCO		2CURCU				2OFORM
A2			1ELOB 1ELHI	1	1CURCU				
A3								1GNAP	1FORM
A4						1GRYAC			
A5			2ELOB						
B1			1ELEX	1					1FORM
B2						1GRYLL			
B3									10FORM
B4			1ELEX			1GRYAC			
B5		X							
C1								1THOM 1GNAP	
C2									1APID
C3				1			1GRYAC	1GNAP 1THOM	
C4							1GRYAC		
C5							2GRYAC		
D1					1CURCU		2GRYAC	1THOM	
D2				4		1GRYAC			3FORM
D3		X							
D4				1				1GNAP	10FORM
D5			1ELOB						

SGS-LTER Long-Term Monitoring Project Protocol - Arthropod Abundance on Trapping Webs

Objectives: Track changes in relative abundance and species diversity of arthropods on small mammal trapping webs to estimate changes in prey abundance

Timetable: One trapping session in May, July, and September.

General Methods: Live pitfall trapping of terrestrial arthropods

Equipment required:

Pitfall traps (20), repair materials	PVC grasshopper sampling hoops
Clipboard and pencils	Long forceps
Film cannisters (for unknowns)	Insect reference collection

Datasheet(s): WebArth.SHT

SPECIFIC METHODS:

1. A small pitfall trap grid was established on all six (three shrub, grassland) small mammal live-trapping webs. Grids consist of 20 pitfalls (four columns A-D by five rows 1-5), with 10 m between traps. Grids are located 5 m south of web trapline 31-40. Trap A1 is south of trap 36, B1 south of 37, etc. Hoops will be placed in three transects with three hoops each spaced 20 m apart. Hoop transects are located 5 m to the east and west of the grid (parallel to columns at A1, 3, 5 and D1, 3, 5) and in the center of the grid (between B1-C1, B3-C3, and B5-C5).
2. Repair traps as necessary before beginning sampling and lay out grasshopper hoops. Traps will be left open for four consecutive days. Record the numbers of each group captured, using the most specific taxonomic grouping possible (Family or Genus-Species). All captured individuals will be marked and released. Bring any unknown specimens back to lab for identification. Data will be compared to continuing pitfall sampling along Catena Transect in June and August.
3. Using a surveyor's lath or net handle, flush and count the number of grasshoppers flushed from within each hoop.