

**Report of Wrangell-St. Elias National Park and Preserve
Lepidoptera Survey Conducted by Clifford D. Ferris
June-July, 1995**

Report prepared by:

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INTRODUCTION

The Lepidoptera survey reported herein was conducted jointly by Kenelm W. Philip and Clifford D. Ferris. This report documents the activities of C. D. Ferris. A separate report has been filed by K. W. Philip.

Three visits were made to the Park for the purpose of evaluating the Lepidoptera species found within the general geographic confines of Wrangell-St. Elias National Park. The dates and localities of these visits were: 13-14 June, 1995 (by private vehicle) along the Nabesna Road from Slana to the private in-hold at Devil's Mountain Lodge; 7 July, 1995 (by NPS helicopter) from Glennallen to a site on the west slope of Mt. Drum; 8-10 July, 1995 (by private vehicle) along the Nabesna Road from Slana to the private in-hold at Devil's Mountain Lodge. For the two Nabesna Road visits, a base camp was established at Jack Creek (mile 36.1).

The body of this report contains two species lists. The first list (Table One) contains the names of all of the species actually found within the general boundaries of the Park, including the private land holdings at Sportsmen's Paradise Lodge (mile 28.6) and Devil's Mountain Lodge (mile 42). In addition to the confirmed species (either by sight or by collection), this list includes species that may be reasonably expected to occur in this geographic area based upon the fauna known from the surrounding region. This list is arranged in phylogenetic order by family, genus, and species. The authority name and date of original description are also provided. Trinomial nomenclature is used as appropriate.

The second list (Table Two) is an inventory of the specimens collected on Park land by C. D. Ferris. This inventory itemizes each specimen by a serial number, scientific name, sex of specimen, locality of collection, date of collection, and present location of the specimen ("Dep." column at right side of Table Two). Binomial nomenclature is used to conserve space. There are two pin labels associated with each specimen. One label contains the locality and date of collection of the specimen. The second label is a specimen-tracking label with the following format:

Wrangell-St.Elias NP
Ser.# WSE95-xxx
Leg: C. D. Ferris

The serial numbers range sequentially from 001 to 152. Thirteen of the specimens have been deposited in the collection of the Allyn Museum of Entomology, Florida Museum of Natural History, University of Florida, Sarasota, Florida 34234 (code AME). The remaining specimens, which are under study, are presently being held in the collection of C. D. Ferris for subsequent deposition in the collection of the Allyn Museum of Entomology.

Forty species of butterflies and twenty-one species of moths were confirmed for the Park region in 1995. There are twenty-two additional species of butterflies that reasonably can be expected to occur in the Park.

Table One
Lepidoptera Species List for Wrangell-St. Elias National Park, Alaska

The list that follows includes the butterfly species that have been confirmed to occur within the external boundaries of Wrangell-St. Elias National Park, although some of the species have been found only on private land to date. Based upon the available habitats found within the Park boundaries, there is a high probability that additional species will be found. The list thus includes both confirmed species and additional possible species. Because of time and weather constraints, only very limited sampling of high-elevation habitats (high tundra meadows, fell fields, and scree slopes) was possible in 1995. Many of the "possible" species are confined to these environments. As of the date of this report, there are 40 confirmed species and 22 possible additional species for a total of 62 species. The list is arranged in phylogenetic order by family according to the most recent North American checklist (C. D. Ferris, ed., 1989. Supplement to: *A Catalogue/Checklist of the Butterflies of America North of Mexico*. The Lepidopterists' Society, Memoir No. 3). The scientific nomenclature is also based upon this checklist. Trinomial notation has been used where appropriate, otherwise binomial entries are provided.

BUTTERFLIES

Species	Status
Hesperioidae	
<i>Erynnis afraninus</i> (Lintner, [1876])	confirmed
<i>Pyrgus centaureae freija</i> (Warren, 1924)	confirmed
<i>Carterocephalus palaemon mandan</i> (W. H. Edwards, 1863)	probable
<i>Hesperia comma borealis</i> Lindsey, 1942	confirmed
<i>Polites draco</i> (W. H. Edwards, 1871)	doubtful
Papilionidae	
<i>Parnassius eversmanni thor</i> Ménétriés, 1849	probable
<i>Parnassius phoebus</i> species	possible
<i>Papilio machaon aliaska</i> Scudder, 1869	confirmed
<i>Pterourus glaucus arcticus</i> (Skinner, 1906)	confirmed
Pieridae	
<i>Pontia occidentalis nelsoni</i> (W. H. Edwards, 1863)	confirmed
<i>Pieris napi</i> (Linnaeus, 1758)	confirmed
<i>Euchloe ausonides</i> (Lucas, 1852)	possible
<i>Euchloe creusa</i> (Doubleday, [1847])	confirmed
<i>Colias philodice vitabunda</i> Hovanitz, 1943	confirmed
<i>Colias krauthii kluanensis</i> Ferris, 1981	confirmed
<i>Colias hecla hecla</i> Lefèbvre, 1836	confirmed
<i>Colias canadensis</i> Ferris, 1982	confirmed

<i>Colias nastes aliaska</i> Bang-Haas, 1927	confirmed
<i>Colias gigantea</i> Strecker, 1900	confirmed
<i>Colias palaeno chippewa</i> W. H. Edwards, 1872	confirmed
Lycaenidae	
<i>Lycaena phlaeas arethusa</i> (Wolley-Dod, 1907)	possible
<i>Epidemia dorcas arcticus</i> Ferris, 1977	confirmed
<i>Everes amyntula</i> (Boisduval, 1852)	confirmed
<i>Celastrina argiolus argentata</i> (Fletcher, 1903)	confirmed
<i>Glaucopsyche lygdamus couperi</i> Grote, 1873	confirmed
<i>Lycaeides idas alaskensis</i> (F. H. Chermock, [1945])	confirmed
<i>Plebejus saepiolus</i> (Boisduval, 1852)	confirmed
<i>Vacciniina optilete yukona</i> (Holland, 1900)	confirmed
<i>Agriades rusticus</i> (W. H. Edwards, 1865)	confirmed
Nymphalidae	
<i>Speyeria mormonia</i> (W. H. Edwards, 1872)	confirmed
<i>Boloria napaea alaskensis</i> (Holland, 1900)	confirmed
<i>Clossiana eunomia</i> (Esper, 1799)	confirmed
<i>Clossiana selene albequina</i> (Holland, 1928)	possible
<i>Clossiana frigga saga</i> (Staudinger, 1861)	confirmed
<i>Clossiana improba</i> (Butler, 1877)	possible
<i>Clossiana polaris</i> (Boisduval, [1828])	confirmed
<i>Clossiana freija</i> (Thunberg, 1791)	confirmed
<i>Clossiana natazhati</i> (Gibson, 1920)	possible
<i>Clossiana distincta</i> (Gibson, 1920)	possible
<i>Clossiana titania</i> (Esper, 1793)	confirmed
<i>Clossiana chariclea</i> (Schneider, 1794)	confirmed
<i>Phyciodes pratensis</i> (Behr, 1863)	confirmed
<i>Polygonia faunus arcticus</i> Leussler, 1935	probable
<i>Polygonia gracilis</i> (Grote & Robinson, 1867)	possible
<i>Nymphalis antiopa</i> (Linnaeus, 1758)	probable
<i>Aglais milberti</i> (Godart, [1819])	possible
<i>Basilarchia arthemis rubrofasciata</i> Barnes & McDunnough, 1916	confirmed
Satyridae	
<i>Coenonympha tullia</i> complex	confirmed
<i>Erebia rossii</i> (Curtis, 1835)	confirmed
<i>Erebia disa steckeri</i> Holland, 1930	confirmed
<i>Erebia magdalena mackinleyensis</i> Gunder, 1932	possible
<i>Erebia fasciata</i> Butler, 1868	probable
<i>Erebia discoidalis</i> (W. Kirby, 1837)	confirmed

<i>Erebia theano alaskensis</i> Holland, 1900	confirmed
<i>Erebia youngi</i> Holland, 1900	possible
<i>Erebia lafontainei</i> Troubridge & Philip, "1982(83)"	possible
<i>Erebia occulta</i> Roos & Kimmich, 1983	possible
<i>Oeneis bore</i> (Schneider, 1792)	confirmed
<i>Oeneis jutta alaskensis</i> Holland, 1900	confirmed
<i>Oeneis melissa</i> (Fabricius, 1775)	possible
<i>Oeneis polixenes</i> (Fabricius, 1885)	possible
<i>Oeneis philipi</i> Troubridge, 1988	possible

The moth fauna (and geographic distributions) associated with the North American subarctic and arctic regions is poorly known. The list that follows contains only those 21 species confirmed from within the general confines of the Park. The phylogenetic order and nomenclature are taken from the most recent checklist (Hodges, R. W., ed., 1983. *Check List of the Lepidoptera of America North of Mexico*. E. W. Classey, Ltd., and the Wedge Entomological Research Foundation, London).

Moths

Species

Tortricidae

3 species: genus and species not determined

Pyraloidea

1 species: genus and species not determined

Geometridae

Itame brunneata (Thunberg, 1784)

Itame anataria (Swett, 1913)

Campaea perlata (Guenée, 1857)

Scopula sentinaria (Geyer, 1837)

Ecliptopera ?silacea (Denis & Schiffermüller, 1875)

Hydriomena ?ruberata (Freyer, 1831)

Xanthorhoe ferrugata alaskae Cassino & Swett, 1925

Eupithecia ?gelidata Möschler, 1860

Lobophora species undetermined

Arctiidae

Arctia caja (Linnaeus, 1758)

Noctuidae

Syngrapha borea (Aurivillius, 1890)

Syngrapha ignea (Grote, 1863)

Trichoplexia exornata (Möschler, 1857)

Sympistis melaleuca (Thunberg, 1791)

Sympistis lapponica (Thunberg, 1791)

Lasiestra leucocycla (Staudinger, 1857)

Spaelotis clandestina (Harris, 1862)

Table Two
Wrangell-St. Elias National Park, Alaska, 1995
Catalog Data

Summary of Lepidoptera Specimen Records by Clifford D. Ferris

Specimen #	Identification	Sex	Locality	Date	Dep.
WSE95-001	<i>Colias palaeno</i>	f	Mi. 5.05 Nabesna Rd., 62°42.3'N, 143°52'W, 2230'	8.vii.95	CDF
WSE95-002	<i>Colias philodice</i>	m	Mi. 5.05 Nabesna Rd., 62°42.3'N, 143°52'W, 2230'	8.vii.95	CDF
WSE95-003	<i>Everes amyntula</i>	f	Mi. 5.05 Nabesna Rd., 62°42.3'N, 143°52'W, 2230'	8.vii.95	CDF
WSE95-004	<i>Lycaeides idas</i>	m	Mi. 5.05 Nabesna Rd., 62°42.3'N, 143°52'W, 2230'	8.vii.95	CDF
WSE95-005	<i>Vacciniina optilete</i>	f	Mi. 5.05 Nabesna Rd., 62°42.3'N, 143°52'W, 2230'	8.vii.95	CDF
WSE95-006	<i>Scopula sentinaria</i>	m	Mi. 5.05 Nabesna Rd., 62°42.3'N, 143°52'W, 2230'	8.vii.95	CDF
WSE95-007	<i>Itame anataria</i>	m	Mi. 5.05 Nabesna Rd., 62°42.3'N, 143°52'W, 2230'	8.vii.95	CDF
WSE95-008	<i>Syngrapha borea</i>	m	Mi. 5.05 Nabesna Rd., 62°42.3'N, 143°52'W, 2230'	8.vii.95	CDF
WSE95-009	<i>Colias palaeno</i>	m	Mi. 6.6 Nabesna Rd., 62°39.3'N, 143°50'W, 2280'	8.vii.95	AME
WSE95-010	<i>Colias palaeno</i>	f	Mi. 6.6 Nabesna Rd., 62°39.3'N, 143°50'W, 2280'	8.vii.95	AME
WSE95-011	<i>Epidemia dorcas</i>	m	Mi. 6.6 Nabesna Rd., 62°39.3'N, 143°50'W, 2280'	8.vii.95	CDF
WSE95-012	<i>Epidemia dorcas</i>	m	Mi. 6.6 Nabesna Rd., 62°39.3'N, 143°50'W, 2280'	8.vii.95	CDF
WSE95-013	<i>Lycaeides idas</i>	m	Mi. 6.6 Nabesna Rd., 62°39.3'N, 143°50'W, 2280'	8.vii.95	CDF
WSE95-014	<i>Lycaeides idas</i>	m	Mi. 6.6 Nabesna Rd., 62°39.3'N, 143°50'W, 2280'	8.vii.95	CDF
WSE95-015	<i>Lycaeides idas</i>	m	Mi. 6.6 Nabesna Rd., 62°39.3'N, 143°50'W, 2280'	8.vii.95	AME
WSE95-016	<i>Itame brunneata</i>	m	Mi. 6.6 Nabesna Rd., 62°39.3'N, 143°50'W, 2280'	8.vii.95	CDF
WSE95-017	<i>Syngrapha borea</i>	m	Mi. 6.6 Nabesna Rd., 62°39.3'N, 143°50'W, 2280'	8.vii.95	CDF
WSE95-018	<i>Colias canadensis</i>	m	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-019	<i>Colias canadensis</i>	m	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-020	<i>Colias canadensis</i>	m	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-021	<i>Colias canadensis</i>	m	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-022	<i>Colias canadensis</i>	m	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-023	<i>Colias palaeno</i>	m	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-024	<i>Colias palaeno</i>	m	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-025	<i>Pieris napi</i>	m	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-026	<i>Pieris napi</i>	f	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-027	<i>Glaucopsyche lygdamus</i>	m	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-028	<i>Clossiana freija</i>	f	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-029	<i>Clossiana frigga</i>	f	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-030	<i>Erebia discolidalis</i>	f	Mi. 10.1 Nabesna Rd., 62°38'N, 143°44.4'W, 2430'	13.vi.95	CDF
WSE95-031	<i>Pyrgus centaureae</i>	m	Mi. 26.3 Nabesna Rd., 62°33.8'N, 143°24.8'W, 3200'	13.vi.95	CDF

WSE95-032	<i>Colias canadensis</i>	m	Mi. 26.3 Nabesna Rd., 62°33.8'N, 143°24.8'W, 3200'	13.vi.95	CDF
WSE95-033	<i>Colias canadensis</i>	m	Mi. 26.3 Nabesna Rd., 62°33.8'N, 143°24.8'W, 3200'	13.vi.95	CDF
WSE95-034	<i>Erebia discoidalis</i>	m	Mi. 26.3 Nabesna Rd., 62°33.8'N, 143°24.8'W, 3200'	13.vi.95	CDF
WSE95-035	<i>Colias canadensis</i>	m	Mi. 28.95 Nabesna Rd., 62°31.7'N, 143°14.3'W, 3150'	8.vii.95	AME
WSE95-036	<i>Colias canadensis</i>	f	Mi. 28.95 Nabesna Rd., 62°31.7'N, 143°14.3'W, 3150'	8.vii.95	CDF
WSE95-037	<i>Colias philodice</i>	m	Mi. 28.95 Nabesna Rd., 62°31.7'N, 143°14.3'W, 3150'	8.vii.95	AME
WSE95-038	<i>Lycaeides idas</i>	m	Mi. 28.95 Nabesna Rd., 62°31.7'N, 143°14.3'W, 3150'	8.vii.95	CDF
WSE95-039	<i>Erynnis afranuis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-040	<i>Colias canadensis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	AME
WSE95-041	<i>Colias canadensis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-042	<i>Colias canadensis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-043	<i>Colias canadensis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-044	<i>Colias canadensis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-045	<i>Colias canadensis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-046	<i>Colias canadensis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-047	<i>Colias canadensis</i>	f	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-048	<i>Euchloe creusa</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-049	<i>Euchloe creusa</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-050	<i>Clossiana chariclea</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-051	<i>Erebia discoidalis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-052	<i>Erebia discoidalis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-053	<i>Oeneis bore</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	13.vi.95	CDF
WSE95-054	<i>Colias canadensis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	14.vi.95	AME
WSE95-055	<i>Colias canadensis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	14.vi.95	CDF
WSE95-056	<i>Euchloe creusa</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	14.vi.95	CDF
WSE95-057	<i>Erebia discoidalis</i>	m	Mi. 30.9 Nabesna Rd., 62°30.9'N, 143°11.1'W, 3140'	14.vi.95	CDF
WSE95-058	<i>Erebia rossii</i>	m	Mi. 31.3 Nabesna Rd., 62°30.8'N, 143°10.4'W, 3100'	14.vi.95	CDF
WSE95-059	<i>Colias canadensis</i>	m	Mi. 32 Nabesna Rd., 62°30.7'N, 143°9.6'W, 3100'	14.vi.95	CDF
WSE95-060	<i>Colias canadensis</i>	m	Mi. 32 Nabesna Rd., 62°30.7'N, 143°9.6'W, 3100'	14.vi.95	CDF
WSE95-061	<i>Colias palaeno</i>	m	Mi. 32 Nabesna Rd., 62°30.7'N, 143°9.6'W, 3100'	14.vi.95	CDF
WSE95-062	<i>Colias philodice</i>	m	Mi. 32 Nabesna Rd., 62°30.7'N, 143°9.6'W, 3100'	14.vi.95	CDF
WSE95-063	Tortricid moth	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF
WSE95-064	Tortricid moth	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF
WSE95-065	Tortricid moth	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF
WSE95-066	Pyrilid moth	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF
WSE95-067	<i>Eupithecia ?gelidata</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF
WSE95-068	<i>Eupithecia ?gelidata</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF
WSE95-069	<i>Ecliptopera ?silaceata</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF
WSE95-070	<i>Hydriomena ?ruberata</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF

WSE95-071	<i>Lobophora species</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF
WSE95-072	<i>Lobophora species</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF
WSE95-073	<i>Xanthorhoe ferrugata</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF
WSE95-074	<i>Spaelotis clandestina</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	13.vi.95	CDF
WSE95-075	<i>Colias canadensis</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-076	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-077	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-078	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-079	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-080	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-081	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-082	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-083	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-084	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-085	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-086	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-087	<i>Colias krauthii</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-088	<i>Colias philodice</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-089	<i>Pontia occidentalis</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-090	<i>Clossiana chariclea</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-091	<i>Coenonympha tullia</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-092	<i>Erebia theano</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-093	<i>Erebia theano</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-094	<i>Erebia theano</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-095	<i>Erebia theano</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-096	<i>Erebia theano</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-097	<i>Scopula sentinaria</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-098	<i>Sympistis melaleuca</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	8.vii.95	CDF
WSE95-099	<i>Colias canadensis</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-100	<i>Colias hecla</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-101	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-102	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-103	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-104	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-105	<i>Colias krauthii</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-106	<i>Colias krauthii</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-107	<i>Colias krauthii</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-108	<i>Colias gigantea</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-109	<i>Epidemia dorcas</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-110	<i>Epidemia dorcas</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF

WSE95-111	<i>Basilarchia arthemis</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-112	<i>Clossiana chariclea</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	AME
WSE95-113	<i>Clossiana chariclea</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-114	<i>Clossiana chariclea</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-115	<i>Clossiana freija</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-116	<i>Erebia theano</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-117	<i>Erebia theano</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-118	<i>Oeneis bore</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-119	<i>Oeneis jutta</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-120	<i>Oeneis jutta</i>	f	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-121	<i>Campaea perlata</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	AME
WSE95-122	<i>Campaea perlata</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	AME
WSE95-123	<i>Campaea perlata</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	AME
WSE95-124	<i>Campaea perlata</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	AME
WSE95-125	<i>Campaea perlata</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-126	<i>Campaea perlata</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-127	<i>Campaea perlata</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-128	<i>Arctia caja</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-129	<i>Syngrapha ignea</i>	m	Mi. 35.8 Nabesna Rd., 62°27.8'N, 143°6'W, 2900'	9.vii.95	CDF
WSE95-130	<i>Colias hecla</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-131	<i>Colias hecla</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-132	<i>Colias nastes</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-133	<i>Agriades rusticus</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-134	<i>Boloria napaea</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	AME
WSE95-135	<i>Boloria napaea</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-136	<i>Boloria napaea</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-137	<i>Boloria napaea</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-138	<i>Boloria napaea</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-139	<i>Boloria napaea</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-140	<i>Boloria napaea</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-141	<i>Boloria napaea</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-142	<i>Boloria napaea</i>	f	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-143	<i>Clossiana chariclea</i>	f	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-144	<i>Clossiana polaris</i>	f	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-145	<i>Clossiana polaris</i>	f	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-146	<i>Oeneis bore</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-147	<i>Oeneis bore</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-148	<i>Oeneis bore</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-149	<i>Oeneis bore</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF

WSE95-150	<i>Oeneis bore</i>	f	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-151	<i>Lasiestra leucocycla</i>	m	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF
WSE95-152	<i>Sympistis lapponica</i>	f	W. slope Mt. Drum, 62°07'N, 144°50'W, 4400'	7.vii.95	CDF

Habitat Descriptions

The Nabesna Road collection sites were located along the road borders, or within 100-200 yards of the road in the private-land sites. The elevation varied from 2230' (Slana end of the road) to 3150' (at mile 28.95), and dropped to 3100' at Devil's Mountain Lodge (mile 42). Habitats included gravel pits, pond and lake edges, openings in moist and dry taiga, and two lightly-vegetated airstrips.

The Mt. Drum site at 4400 was basically moderately dry open tundra meadow. It was bordered on one side by a narrow deep valley that contained a fast-flowing stream. The up-hill end of the site gave way to fell fields and scree slopes.

Acknowledgments

The Lepidoptera survey reported in this document would not have been possible without the cooperation and assistance of several key people, and I wish to recognize and thank them. No collecting would have been possible without the collecting permits issued to K. W. Philip and me by the Park Superintendent, Jonathan B. Jarvis. The Nabesna District Ranger at Slana, Sean McGuinness, kindly provided travel and weather information for the two Nabesna Road trips.

Special thanks are due Russell Galipeau of the Wrangell-St. Elias National Park and Preserve office, Glennallen, Alaska for making possible the helicopter trip to the west slope of Mt. Drum.

None of the above would have occurred without the initial contacts and arrangements made by my colleague in the field, Dr. Kenelm W. Philip. He also provided surface transportation from Fairbanks to Slana and along the Nabesna Road for the two Nabesna Road trips.

Appendices

- A.** Letter from Jonathan B. Davis, Superintendent, 28 April, 1995.
- B.** Copy of collecting permit issued to K. W. Philip and C. D. Ferris.
- C.** Copy of Catalog Work Sheet with annotation to Table 2 in main body of this report.
- D.** Signed receipt invoice from the Allyn Museum of Entomology/Florida Museum of Natural History acknowledging receipt of specimens collected in Wrangell-St. Elias National Park and Preserve.
- E.** Three letters of acknowledgement from the Florida State Museum of Natural History/Allyn Museum of Entomology. These letters refer to specimens from Wrangell-St. Elias National Park and Preserve, and Gates of the Arctic National Park and Preserve.
- F.** Identification of slides. [Original Copy Only] Two 35 mm color-slide pages (28 color slides) with photographs of butterfly and moth species found within the Park confines.



United States Department of the Interior

NATIONAL PARK SERVICE
Wrangell-St. Elias National Park / Preserve
P.O. Box 29
Glennallen, Alaska 99588

IN REPLY REFER TO:

L30(WRST-RM)

April 28, 1995

Cliff Ferris, Ph.D.
P.O. Box 3351
University Station
Laramie, Wyoming

Dear Dr. Ferris:

We have reviewed your proposed workplan for the 1995 field season. Enclosed you will find an approved "Application for Permission to Collect Specimens of Plants, Rocks, Minerals, and Animals". You and all members of your research group will be working under a single collection permit issued to you.

A condition of your permit is that any collections from National Park Service (NPS) units must be cataloged according to NPS standards. At the end of the field season, please complete the enclosed museum catalog record worksheets (MCRWs). Each member of your group is required to complete a MCRW which lists sample number series, provides sample locations (map), references where detailed information for all specimens will be published, and identifies where specimens are curated. All MCRWs must be returned prior to December 31, 1995.

In addition, we request that you check in with the Nabesna District Ranger, Sean McGuinness prior to commencing research activities. He is stationed at Slana and can be reached at (907) 822-5238. If you have any questions or need additional information, contact Russell Galipeau at (907) 822-5234.

Sincerely,


Jonathan B. Jarvis
Superintendent

Enclosure

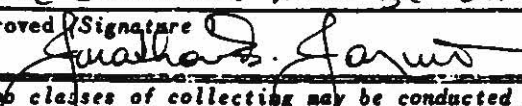
United States Department of the Interior
National Park Service

COLLECTING PERMIT

CLASS

A

In Accordance with the Conditions and Restrictions Appearing on the Back Permission
is Granted

Name of Collector KEN ELM PHILIP / CLIFF FERRIS	Area WRANGELL-ST. ELIAS NP/P	Date Issued 4/26/95
To Collect the Following Specimens LEPIDOPTERA		
Locality of Collecting Limited to WRANGELL-ST. ELIAS NP/P - PARKSIDE		Expiration Date 12/31/95
Special Conditions or Restrictions ALL SPECIMENS MUST BE CATALOGUED USING NPS STANDARD		
Approved Signature 	Title SUPERINTENDENT	

• Two classes of collecting may be conducted under this permit:

Class A - That required for public exhibits and for research undertaken by persons who can establish their connection with public museums or other scientific or educational institutions. Specimens collected may be insects (Hexapoda), spiders (Araneida), plants, rocks, or minerals, as designated in the permit.

Class B - That undertaken by Federal employees only for scientific or educational purposes. Specimens collected may be plants, rocks, minerals or animal life as designated in the permit.

The collecting of endangered or vanishing species of animals, if permitted at all, will be allowed only when the required approval has been obtained from the Director of the National Park Service

THIS PERMIT MUST BE CARRIED AT ALL TIMES WHILE COLLECTING. SEE REVERSE FOR CONDITIONS AND RESTRICTIONS.

CONDITIONS UPON WHICH THIS COLLECTING PERMIT IS ISSUED

It is the intention of the National Park Service to further scientific research within the areas administered by it, and to cooperate with technical workers to the fullest extent compatible with its charge to preserve all species of flora and fauna and all geologic material in a natural state, insofar as is possible.

1. This permit applies only to animal life, plants, rocks and minerals. Archeological and paleontological materials may not be collected under this permit.

2. The collections shall be used for scientific or educational purposes only, shall be dedicated to public benefit, and shall not be used for commercial profit.

3. All collecting must be done away from roads, trails, and developed areas, unless such localities are specified in the permit. The collecting shall be conducted in such a manner as not to attract attention or to cause damage to the environment. Because of the scarcity or importance of some specimens, Service officials may designate the kind, number and sizes of specimens which may be collected, and any other restrictions necessary to the preservation of the area.

4. The National Park Service reserves the right, in the interest of science, to designate the depository of all specimens removed from a national park or monument and to approve or restrict transfers of specimens between depositories. The National Park Service also reserves the right to designate the U. S. National Museum as the depository of any type specimen removed from a national park or monument, after the collector has made necessary studies and published the results of his research thereon.

5. The Superintendent may require the permittee to furnish an inventory and locality description of all or all specimens proposed to be collected before they are removed and, after the collection is assembled, to submit it for examination.

6. Use or Disposition of Preserved Specimens: The collected specimens shall be deposited in a permanent public museum or in the exhibit, study or type collections of scientific or educational institutions. They must be suitably recorded in a permanent file and must be available to the public.

Classification	#1	#2	#3	#4

PLEASE REFER TO TABLE TWO OF THIS REPORT (Pages 6-10)

1	1
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1

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114

11

1

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10

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10/10/2010

DIRECTIONS FOR CATALOGING NATURAL HISTORY SPECIMENS

one catalog work sheet represents unique (i.e. single, usually) specimens or samples collected at one location at one time

Blocks # 2, 3, 4: see attached

Object Location: where object is stored from general to specific

Scientific Name: whatever is appropriate for your field; genus, species for biology and paleontology

Common Name: what item is commonly called

Item Count: number of items per collection. Enter 1 for a single object even if component parts, such as unattached skeletal parts of *same* critter. If component parts label a-b under Comp Part for 2 parts, etc.

Strg Unit: if the object has too many parts to count or is of a nature that cannot be counted such as soil samples enter 3 lbs. or 5 cu. ft. in this box

Description: see catalog work sheet for line by line requirements

Collection Site: enter the 1:63,360 quad name (ex: Nabesna A-2) where sample/specimen was collected; and a specific (Bonanza Creek) or general name (Wrangell Mtns.) if available

Township/Range/Section: self-explanatory

County: 1:250,000 quad map name where collection occurred

ST: Alaska

Waterbody/Drainage: stream/lake/bay name if applicable

Habitat/Depositional Environment: if applicable

Formation/Period: geological formation and period if applicable

Dimensions/Weight: as appropriate

Collector: name of person collecting sample/specimen

Collection # Field: field collection numbers used by the collector or collecting institution for identification or curation

Date: date of collection

Condition: condition specimen/sample was collected in: complete, incomplete (> 50%), fragment (< 50%); excellent, good, fair, poor

Identified By & Date: name of person identifying specimen/sample; may be different from collector

Photo Number: roll and exposure number if applicable

Cataloger: name of person filling out catalog worksheets

Cat Date: date catalog worksheets filled out

Other Nos: formal accession numbers that collecting institution may use if included in their museum collections

Specimen Transmittal Invoice

Specimens from Wrangell-St. Elias National Park, Alaska

To: Allyn Museum of Entomology/Florida State Museum, University of Florida, Sarasota, Florida

From: Clifford D. Ferris, University of Wyoming, Laramie, Wyoming

Date: 30 August, 1995

Specimen #	Identification		Locality	Date
WSE95-009	<i>Colias palaeno</i>	male	Nabesna Road, Mi. 6.6	8 July, 1995
WSE95-010	<i>Colias palaeno</i>	female	Nabesna Road, Mi. 6.6	8 July, 1995
WSE95-015	<i>Lycaeides idas</i>	male	Nabesna Road, Mi. 6.6	8 July, 1995
WSE95-035	<i>Colias canadensis</i>	male	Nabesna Road, Mi. 28.95	8 July, 1995
WSE95-038	<i>Lycaeides idas</i>	male	Nabesna Road, Mi. 28.95	8 July, 1995
WSE95-040	<i>Colias canadensis</i>	male	Nabesna Road, Mi. 30.9	13 June, 1995
WSE95-054	<i>Colias canadensis</i>	male	Nabesna Road, Mi. 30.9	14 June, 1995
WSE95-112	<i>Clossiana chariclea</i>	male	Nabesna Road, Jack Creek	9 July, 1995
WSE95-121	<i>Campaea perlata</i>	male	Nabesna Road, Jack Creek	9 July, 1995
WSE95-122	<i>Campaea perlata</i>	male	Nabesna Road, Jack Creek	9 July, 1995
WSE95-123	<i>Campaea perlata</i>	male	Nabesna Road, Jack Creek	9 July, 1995
WSE95-124	<i>Campaea perlata</i>	male	Nabesna Road, Jack Creek	9 July, 1995
WSE95-134	<i>Boloria napaea</i>	male	Mt. Drum	7 July, 1995

Specimens Received By:

Jacqueline Y. Miller, *Jacqueline Y. Miller*

Title: Associate CuratorDate: 30 August 1995



FLORIDA
MUSEUM OF
NATURAL HISTORY

UNIVERSITY OF FLORIDA • GAINESVILLE

ISSUES THIS CERTIFICATE TO

Dr. C. D. Ferris
5405 Bill Nye Avenue
Laramie, Wyoming 82070

IN GRATEFUL ACKNOWLEDGEMENT OF THE ITEMS LISTED. THIS CONTRIBUTION IS RECORDED
AS A GIFT TO FLORIDA MUSEUM OF NATURAL HISTORY AND SHALL BEAR ACCESSION NUMBER

Allyn Museum 1995-16

DATE: 30 August 1995

ITEMS:

Unprepared, identified Lepidoptera with labels from
Alaska

31	Satyridae
8	Pieridae
7	Nymphalidae
3	Lycaenidae
4	Geometridae

53 Total

Lee D. Miller
CURATOR

Thomas R. Bunker
DIRECTOR



ALLYN MUSEUM OF ENTOMOLOGY

UNIVERSITY OF FLORIDA
813 / 355-8475

PETER BENNETT, Ph.D.
Director

30 August 1995

Dr. C. D. Ferris
P. O. Box 3351
University Station
Laramie, Wyoming 82070

Dear Dr. Ferris:

On behalf of the staff, I would like to take this opportunity to thank you for your recent donation of 53 identified, unprepared Lepidoptera with full data labels to the Allyn Museum collections. We appreciate the receipt of a complete inventory of the taxa for each location and a copy of the park permits. A formal acknowledgement of the donation will be forthcoming from our Director, Dr. T. P. Bennett, in the very near future.

Although the entire accession of Alaskan specimens is a welcomed addition to the current scientific holdings, we are particularly appreciative of the series of *Erebia lafontainei*. This species was not represented in the Museum collection prior to the receipt of this donation.

Again, we acknowledge with sincere thanks your continued support of the Allyn Museum collections. It is only through such generosity as yours that museum collections can continue to grow and flourish.

Best wishes.

Sincerely,

Lee D. Miller
Curator

LDM/j



ALLYN MUSEUM OF ENTOMOLOGY

UNIVERSITY OF FLORIDA
813 / 355-8475

PETER BENNETT, Ph.D.
Director

25 September 1995

Dr. Clifford D. Ferris
5405 Bill Nye Avenue
Laramie, Wyoming 82070

Dear Cliff:

On behalf of the Allyn Museum staff, I would like to take this opportunity to thank you for your recent donation of exceptional butterflies from Alaska to the Museum collections. Although these specimens are unprepared, they are accompanied with the appropriate locality labels and your complete identifications. Once these specimens are prepared, they can be readily integrated into the collection. This accessioned lot of specimens includes a number of species currently not represented in the Museum collections, such as *Erebia fontanei*, and are very welcomed additions.

We appreciate your continued generosity and support for the Museum collections. Without your valued assistance, the Museum collections could not continue to flourish and increase in scientific value.

Best wishes.

Sincerely,

Lee D. Miller
Curator

Enc:1

ldm/j

Identifications for 35mm Color Slides

Slide No.	Scientific Name	Common Name
1	Top: <i>Hesperia comma borealis</i>	Labrador Skipper
	Bottom: <i>Pyrgus centaureae freija</i>	Freija's Grizzled Skipper
2	Top: <i>Erynnis afrauius</i>	Afrauius Dusky Wing
	Middle: <i>Epidemia dorcas arcticus</i>	Arctic Copper
	Bottom: <i>Celastrina argiolus argentata</i>	Fletcher's Blue
3	<i>Papilio machaon aliaska</i>	Alaskan Old World Swallowtail
4	<i>Pterourus glaucus arcticus</i>	Arctic Swallowtail
5	Top: <i>Pontia occidentalis nelsoni</i>	Nelson's White
	Bottom: <i>Euchloe creusa</i>	Northern Marble
6	Top: <i>Pieris napi</i> male	Mustard White
	Bottom: <i>Pieris napi</i> female	
7	Top: <i>Colias philodice vitabunda</i> male	Lively Clouded Sulphur
	Bottom: <i>Colias philodice vitabunda</i> female	
8	Top: <i>Colias hecla hecla</i> male	Hecla Sulphur
	Bottom: <i>Colias hecla hecla</i> female	
9	Top: <i>Colias nastes aliaska</i> male	Alaska Sulphur
	Bottom: <i>Colias nastes aliaska</i> female	
10	Top: <i>Colias canadensis</i> male	Canadian Sulphur
	Bottom: <i>Colias canadensis</i> female	
11	Top: <i>Colias krauthii kluanensis</i> male	Kluane Sulphur
	Bottom: <i>Colias krauthii kluanensis</i> female	
12	Top: <i>Colias palaeno chippewa</i> male	Palaeno Sulphur
	Bottom: <i>Colias palaeno chippewa</i> female	
13	Top: <i>Colias gigantea</i> male	Giant Sulphur
	Bottom: <i>Colias gigantea</i> female	
14	Top Row, Left to Right:	
	<i>Agriades rusticus</i>	Rustic Blue
	<i>Everes amyntula</i>	Western Tailed Blue
	<i>Vacciniina optilete yukona</i>	Yukon Blue
	Bottom Row, Left to Right	
	<i>Lycaeides idas alaskensis</i>	Alaskan Blue
	<i>Glaucopsyche lygdamus couperi</i>	Couper's Blue
15	<i>Plebejus saepiolus</i>	Greenish Blue
	Top: <i>Speyeria mormonia</i>	Mormon Friüllary
	Bottom: <i>Basilarchia arthemis rubrofasciata</i>	Northern White Admiral