

Boreal Partners in Flight Working Group

1995 Annual Report

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BOREAL PARTNERS IN FLIGHT MAILING LIST – JUNE 1996
 WESTERN WORKING GROUP NEWSLETTER, APRIL 1996
 REPORT FROM WESTERN REGIONAL COORDINATOR
 WESTERN WORKING GROUP RESOURCE DIRECTORY
 BRIEFING ON SWAINSON’S HAWK DIE-OFFS IN ARGENTINA

BOREAL PARTNERS IN FLIGHT 1995 WORKSHOP AGENDA

December 4-6, 1995, U.S. Fish and Wildlife Service Regional Office, Anchorage, Alaska
43 participants

MONDAY, DECEMBER 4TH

1:00 pm Open workshop on developing plumage-based aging and sexing criteria for Alaska landbirds

All Alaska banders are aware of the shortcomings in Pyle et al.'s keys for Alaskan species/subspecies. Bring ideas or information about 1) which species have given you problems, 2) species for which you have adequate data (>100 combined individuals) of known age/sex classes, and 3) which species you would be willing to collate information and undertake an analysis.

5:00 pm Adjourn

TUESDAY, DECEMBER 5TH

8:30 am Welcome — Brad Andres, Chair, Boreal Partners in Flight

8:40 am Overview of Boreal Partners in Flight — Colleen Handel, NBS (Cape May presentation)

Inventory, Monitoring, Research

9:00 am Report on the 1995 Breeding Bird Survey in Alaska — Brad Andres, USFWS

9:10 am Report on mist-netting and banding efforts in Alaska, British Columbia and Yukon in 1995 — Donna Dewhurst, Alaska Peninsula/Becharof NWR

9:30 am Report on the Alaska off-road point count program in 1995 — Colleen Handel

9:50 am Allocation of off-road point count transects on Tetlin NWR — Terry Doyle, Tetlin NWR

10:10 am Break

10:30 am The 1995 Yukon Flats MAPS project — Kristine Sowl, Yukon Flats NWR

- 10:50 am Phenology and habitat use by Olive-sided Flycatchers — John Wright, ADF&G
- 11:10 am Open discussion on data forms and software — Hank Timm, Tetlin NWR
- 12:30 pm Lunch
- 1:40 pm Fall migration of landbirds on the Alaska Peninsula — Donna Dewhurst
- 2:00 pm Procedures of the USFWS Checklist Project — Brad Andres
- 2:20 pm Habitat selection and breeding ecology of Townsend's Warblers in the Anchorage bowl — Steve Matsuoka, NBS/UAF
- 2:40 pm Habitat associations of breeding birds in Fairbanks — Philip Martin, USFWS

Information and Education

- 2:50 pm "Teaming with Wildlife", the Fish and Wildlife Diversity Funding Initiative — John Wright, ADF&G
- 3:20 pm Break
- 3:40 pm International Migratory Bird Day 1995 — Charla Sterne, NBS
- 3:50 pm Curricula for migratory songbird education — Heather Johnson, USFWS
- 4:20 pm Songbird Blues kits in Alaska — Mark Schroeder, NPS
- 4:30 pm Status of BPIF Project Directory — Colleen Handel
- 4:40 pm Status of Alaska bird song CD — John Wright
- 4:50 pm Open discussion on training opportunities for 1996 — Brad Andres
- 5:10 pm New publications available and upcoming meetings — Brad Andres
- 5:30 pm Adjourn

WEDNESDAY, DECEMBER 6TH

Conservation and Management

- 8:20 am Catch-up on any topics from 12/5
- 8:40 am The USFWS Species of Concern list — Kent Wohl, USFWS
- 9:00 am Approaches to conservation planning in the western United States and a summary of National Partners in Flight meeting held in Cape May — Brad Andres
- 9:40 am Discussion on approaches to conservation planning in Alaska and Yukon — Brad Andres
- 10:00 am Break

Technical Committee Working Groups

- 10:10 am Technical committee subgroups. Assess if 1995 action items were completed and establish a set of action items for 1996. Assign dates and names for completion. Technical committees should focus on state-wide programs.
- 11:30 pm Reports by technical committee chairs to entire group — (Brad Andres, Colleen Handel, Charla Sterne, Anne Morkill)
- 12:20 pm Lunch
- 1:30 pm Biogeographical subgroups. Groups should focus on how to implement the tools of PIF (monitoring, I&E, research) to manage or conserve landbirds in their region. Groups should develop a set of specific action items unique to their region (using some information provided by technical committees). Effort should focus on priority species and important habitats for the region. Ideas on this approach will be provided to committee chairs prior to the workshop.
- 3:00 pm Break
- 3:10 Report back to group by biogeographical region chairs — (Dave Yokel, Brian McCaffery, John Wright, Donna Dewhurst, Charla Sterne, Ellen Campbell)

Business Items

4:30 Elect chairs, update charter, discuss format for distributing workshop results, set 1996 workshop dates, charter revisions

5:30 Adjourn

INVENTORY, MONITORING, AND RESEARCH

Compiled by Colleen M. Handel

ALASKA NATIONAL WILDLIFE REFUGE CHECKLIST PROJECT

The U.S. Fish and Wildlife Service continued to collect baseline on the distribution, abundance, and breeding status of birds occurring on National Wildlife Refuges in Alaska. Observers record the breeding status (observed, possible, probable, confirmed) and an index of abundance (based on number of individuals sighted per hour) for each species encountered within a township; they also keep track of the amount of effort (person-hour) they spend in each township. Service personnel used checklist procedures to inventory breeding birds on Alaska Army National Guard training lands in the Yukon-Kuskokwim Delta in 1995. Work in on Refuges will continue in 1996 as will efforts on Guard training lands in northwest Alaska. A complete breeding bird Atlas of Fort Richardson, Anchorage, is planned for 1996 and 1997. Please contact Brad Andres for further details.

BREEDING BIRD SURVEY ROUTES

The goal for the BBS in Alaska is to strive for consistent yearly coverage and to gradually increase coverage in western and northwestern Alaska. We have increased coverage in Alaska significantly within the past few years and should strive to maintain coverage on all existing routes.

1995 Accomplishments

- A total of 72 BBS routes (50-stop) and 4 short routes (<50 stops) were run in Alaska in 1995. Although coverage was down slightly from 1994 (75 50-stop routes), coverage should rebound in 1996. Patuxent is planning to undertake an analysis of Alaska BBS data in the next year or two.

1996 Action Plan

1. Maintain coverage, including observer consistency, on all BBS routes surveyed in Alaska since 1993.
2. Expand coverage along river systems in central and western Alaska in 1996.
3. Initiate habitat assessment along Alaska BBS routes (6/96).
4. Develop recommendations for statewide BBS expansion (12/96).

MIST-NETTING AND BANDING

Since 1991 birds have been mist-netted and banded at various sites in Alaska, the Yukon Territory, and British Columbia, to monitor landbird populations during spring migration, the summer breeding season, and fall migration. Certain programs have also been established to train new banders and to educate the public, particularly schoolchildren. The greatest effort has been devoted to the MAPS (Monitoring Avian Productivity and Survivorship) program, which seeks to monitor populations of key species of landbirds by examining trends in adult population size, production of young, and survivorship across North America. Banding during spring and fall migration is being conducted to document timing and corridors of migration and to determine if migration banding can be used as a monitoring tool for boreal regions. Major gaps still exist in coverage of this region, particularly in Western Alaska, Southeastern Alaska, and the Yukon Valley.

1995 Accomplishments

- Banding was conducted at 38 stations at 20 different locations in Alaska in 1995. Birds were also banded at 9 stations in western Canada, including 3 locations in Yukon Territory and 6 locations in British Columbia. Banding was conducted in all biogeographic regions except Northern Alaska. Organizations that participated in the netting and banding program in Alaska during 1995 included: Alaska Bird Observatory, Institute for Bird Populations, National Biological Service (Alaska Science Center), National Park Service (Denali National Park, Northwest Alaska Areas National Parks, U. S. Army (Fort Richardson), U. S. Fish and Wildlife Service (Alaska Peninsula-Becharof NWR, Izembek NWR, Koyukuk/Nowitna NWR, Migratory Bird Management, Selawik NWR, Tetlin NWR, Yukon Flats NWR), and U. S. Forest Service (Glacier Ranger District, Juneau Ranger District, Misty Fjords National Monument, Yakutat Ranger District). Organizations that participated in the program in western Canada included: Canadian Wildlife Service (Northern Conservation Division, Pacific Wildlife Research Centre) and Simon Fraser University. A detailed summary of all birds banded during 1995

has been summarized by Todd Eskelin and Donna Dewhurst (available from Alaska Peninsula NWR, P. O. Box 277, King Salmon, AK 99613).

- A total of 2,845 birds of 49 species was banded during 20,324 hours of netting at 9 locations during training sessions, spring migration, and non-standardized banding during the breeding season (Table 1.). Three stations were run regularly during spring migration: Creamer's Field (Alaska Bird Observatory, Fairbanks), Tetlin NWR (Tok), and Teslin, Yukon Territory (CWS). This is the fourth year of spring migration banding by Alaska Bird Observatory and the second year for Tetlin NWR; Teslin is a new station. No stations were dropped this year.
- A total of 6,692 birds of 75 species was banded during 12,632 hours of netting at 25 MAPS stations in Alaska, 1 in the Yukon Territory, and 1 in British Columbia (Table 2.). The number of stations run in each biogeographic region included: 1 in Western, 11 in Central, 4 in Southwestern, 6 in Southcoastal, and 3 in Southeastern Alaska. There were two fewer MAPS stations run in Alaska during 1994 than 1993, the same station was run in the Yukon Territory, and the station in British Columbia was new. Dropping MAPS stations has serious consequences for the monitoring program, since it takes three years to get the first data point on survivorship; after that, a data point is obtained for every consecutive year the station is run.
- A total of 18,635 birds of 109 species was banded during 42,865 hours of mist-netting during fall migration (Table 3.). Banding was conducted at 4 stations in Southwestern Alaska, 2 in Central Alaska, 2 in Southcoastal Alaska, and 5 in British Columbia. This is the fourth year for ABO's station in Fairbanks; the third year for Tetlin, Portage, and Izembek; and the second year for Alaska Peninsula/Becharof stations and Yakutat on the Tongass NF. One new station was established on the Alaska Peninsula but birds were not banded at Homer this past fall. Five new stations in British Columbia were responsible for adding a number of new species to the banding efforts for the region.
- For all efforts in Alaska and western Canada combined, the top species banded during the MAPS program in 1995 were: Wilson's Warbler (1,390), Common Redpoll (513), Orange-crowned Warbler (504), Yellow Warbler (440), Slate-colored Junco (379), Myrtle Warbler (349), White-crowned Sparrow (309), Swainson's Thrush (262), Lincoln's Sparrow (260), Hermit Thrush (258), and Ruby-crowned Kinglet (210). The top species banded during migration in 1995 were: Wilson's Warbler (2,992), Orange-crowned Warbler (2,071), Yellow Warbler (1,442), Savannah Sparrow (1,034), American Tree Sparrow (1,031), Ruby-crowned Kinglet (837), Slate-colored Junco (764), Myrtle Warbler (744), Lincoln's Sparrow (740), and Hermit Thrush (604).

- Donna Dewhurst recaptured a Golden-crowned Sparrow in August 1995 on the Alaska Peninsula that had been banded at Coyote Creek Riparian Station near San Francisco, California, in December 1994. A Hermit Thrush that she had banded on the Alaska Peninsula in summer 1995 was recovered in Soldotna in the fall.

1995 Annual Meeting Topics

- If banding stations are dropped from the MAPS program for one or more years and then restarted, they are treated as new starts for analytical purposes and a minimum of 3 years is again required for the first good measure of adult survivorship.
- Although there is a lot of movement during August, it is recommended that MAPS stations continue to band during all seasonal periods for which they had done so in previous years.
- If banding is to be conducted during spring or fall migration, it is recommended that sites be set up at locations different from those used for MAPS banding.
- We need to determine how variable the post-breeding period is with respect to an index of productivity. We also need to determine how long local breeders remain on territories. This information can be contributed to IBP for their review of the MAPS protocol and can also be used by us for establishing migration stations.
- Hank Timm and Terry Doyle led a session on banding forms. Several problems need to be resolved: (1) data fields and codes required by MAPS program and the Bird Banding Laboratory differ; (2) several projects often record additional data for certain species or questions of interest; (3) there is no standardized banding form for Boreal Partners in Flight. Many of the projects in Alaska use one of the forms designed by the following groups: MAPS, Alaska Bird Observatory, Alaska Science Center, or Tetlin NWR (some of which were derived from the others). It was decided that the latter three groups would get together and try to design a form that could be used by all projects in the region and that would contain all the fields required by the MAPS program.
- Terry Doyle also led a session on refining aging and sexing criteria for northern populations of landbirds. Species were assigned to different individuals to compile existing data from Alaska on birds of known age and/or sex. The following assignments were made to develop keys to identify species that are difficult to separate: *Empidonax* flycatchers (Anna Marie Barber); immature sparrows (Kristine Sowl and Dan Gibson); *Catharus* thrushes (Terry Doyle); casual warblers (Brad Andres and Dan Gibson); Common vs. Hoary Redpolls (Brian McCaffery and Dan Gibson); Slate-colored vs. Oregon Juncos (Brad

Andres). The following assignments were made to distinguish age and sex groups within individual species: Alder and Hammond's Flycatchers (Anna Marie Barber and Colleen Handel); Black-capped Chickadee (Colleen Handel); Arctic Warbler (Anna Marie Barber); Pine Grosbeak (Todd Eskelin and Dan Gibson); Orange-crowned Warbler, Slate-colored Junco (Terry Doyle); Townsend's Warbler (Steve Matsuoka); Myrtle Warbler (Anna Marie Barber); Wilson's Warbler (Donna Dewhurst); Yellow Warbler (Kristine Sowl); Swainson's and Hermit Thrush (Jackie Canterbury).

It was agreed that the above individuals would contact other banders throughout the region, compile all data available on birds of known age and/or sex, and summarize the criteria that were most useful for aging and sexing. If inadequate data were available, then the individuals were to compile and distribute a list of standardized data that should be collected by anyone in the state banding the species.

1996 Action Plan

1. Maintain coverage of the mist-netting programs.
2. Generate guidelines and recommendations for new banding stations.
3. Distribute banding summary forms, collate data, identify data gaps, and prepare summary for annual report in 1996.
4. Develop recommendations for statewide implementation and prioritization, after the review of Institute for Bird Population has been completed.
5. Refine aging and sexing criteria for selected species in Alaska (see above). Target date for a first draft is Alaska Bird Conference (4/8/96) and for a final is 5/1/96.
6. Register all MAPS stations with Institute for Bird Populations.
7. Standardize data collected on habitat at banding stations. One suggestion was to adapt the protocol used for off-road point counts to a protocol for collection of habitat data at each census point for MAPS stations and at each net for migration stations.
8. Standardize banding data forms to the extent possible for all projects in the region. Incorporate all fields and codes required by MAPS protocol and Bird Banding Laboratory protocol as well as those fields and codes required for specific species studies in Alaska. Target date is a working session at the Alaska Bird Conference and a final form by 5/1/96.

Table 1. Spring migration, training, and non-MAPS breeding season banding in Alaska and the Yukon Territory during 1995.

Region and location	Purpose	No. net-hrs	No. spp.	No. birds
Central Alaska				
Creamer's Field (ABO)	Spring migration	12,706	27	581
Chena Lakes (ABO)	Training	1,304	18	153
Tetlin NWR (FWS)	Spring migration	4,416	24	834
Southwest Alaska				
Alaska Pen. NWR (FWS)	Training	539	19	222
Alaska Pen. NWR (FWS)	Breeding	1,026	14	563
Togiak NWR (FWS)	Training	33	9	74
Togiak NWR (FWS)	Breeding	155	23	243
Yukon Territory				
Whitehorse (CWS)	Training	96	10	20
Teslin (CWS)	Spring migration	49	11	155
All areas	All activities	20,324	49	2,845

Table 2. Fall migration banding in Alaska and British Columbia during 1995.

Region and location	No. net-hrs	No. species	No. birds
Central Alaska			
Creamer's Field (ABO)	14,465	34	4,369
Tetlin NWR (FWS)	6,948	35	2,293
Southwestern Alaska			
Mother Goose Lake (FWS)	1,885	21	2,420
Becharof Lake (FWS)	1,407	22	1,177
Yantarmi Sound (FWS)	1,321	19	1,375
Izembek NWR (FWS)	231	10	345
Southcoastal Alaska			
Yakutat (FS/FWS)	3,682	31	1,389
Portage Valley (FS)	178	16	134
British Columbia			
Triangle Island (SFU)	2,208	25	893
Penticton (CWS)	4,098	54	1,594
MacKenzie/G (CWS)	1,507	47	807
MacKenzie/M (CWS)	1,870	46	976
Rocky Pt./Victoria (CWS)	3,060	48	863
All areas	42,865	109	18,635

Table 3. MAPS breeding season banding in Alaska, Yukon, and British Columbia during 1995.

Region and location	No. net-hrs	No. species	No. birds
Central Alaska			
Yukon Flats NWR (FWS)	500	29	715
Denali NP (NPS)	2,198	29	1,275
Fairbanks (ABO)	626	15	74
Tetlin NWR (FWS)	504	16	156
Western Alaska			
Kobuk/Noatak (NPS)	640	21	286
Kotzebue (FWS)	256	16	305
Koyukuk/Nowitna (FWS)	420	20	388
Southwest Alaska			
Izembek NWR (FWS)	461	9	429
Alaska Pen./Becharof NWR (FWS)	1,183	19	1,316
Southcoastal Alaska			
Anchorage (NBS)	1,876	27	632
Fort Richardson (FWS/DOD)	587	21	148
Portage Valley (FS)	398	17	160
Yakutat (FS/FWS)	367	14	180
Southeastern Alaska			
Hoonah and Juneau (FS)	846	22	292
Misty Fiords Nat. Mon. (FS)	926	12	56
Yukon Territory			
Whitehorse (CWS)	336	18	73
British Columbia			
Revelstoke (CWS)	508	24	207
Total	12,632	75	6,692

MIGRANT LANDBIRD RESEARCH

Forest bird research activities in Alaska include point count studies as well as individual studies outlined below. The point count program is evaluating bird-habitat relationships on a statewide basis. Most of the other studies are geared towards refining monitoring methodology for specific species or Alaskan conditions, or understanding breeding and habitat requirements of species of particular concern. A few studies are targeting particular management issues, such as the effects of mining and timber harvesting on bird populations.

1995 Accomplishments

- Philip Martin and Barbara Boyle, FWS, conducted a study of the distribution of landbirds in relationship to the configuration of wetland habitats in the Fairbanks area. Locations of birds were mapped within 50 m of 9 different trails, which totaled about 30 km in length. The composition of habitat within concentric circles of various radii around each bird location will be analyzed for 10 different species to develop predictive models for their occurrence in different types of habitat. In conjunction with this study, Barbara Boyle and Philip Martin also conducted an in-depth study of the distribution of breeding Northern Waterthrushes in relationship to landscape characteristics, and are currently investigating the potential use of remotely-sensed data for evaluating bird-habitat relationships at a fine scale.
- Peter Paton, University of Rhode Island, continued the fourth year of a study started by Tom Pogson, Alaska Bird Observatory, to develop landbird monitoring methodology for Denali National Park and Preserve. They have been evaluating seasonal variation in detection probabilities, interannual variation in relative abundance, detection threshold distances for selected species, and variability among observers. An annual report is available from Peter Paton.
- Steve Matsuoka, NBS and UAF, completed his second year of a study of the habitat requirements and breeding ecology of the Townsend's Warbler in the Anchorage area. Townsend's Warblers were found to show strong selectivity for large white spruce for nesting areas within mixed coniferous-deciduous forests but were more plastic in their selection of foraging substrates. Townsend's Warbler was also documented as a new host of *Protocalliphora*, a parasitic blowfly larva that infests nestlings. It is likely that these larvae are widespread among passerines in Alaska, particularly ground-nesting species, and biologists should examine nest materials and nestlings for their presence.
- John Wright, ADF&G, continued a study of Olive-sided Flycatchers in the Fairbanks area. He continues to investigate factors contributing to high

interannual variability on BBS routes. He is examining territory size, pairing success, timing of breeding and reproductive success in relation to singing rates. Students of Pierre Deviche, UAF, assisted in monitoring song activity.

- Colleen Handel, NBS, completed the fourth year of a cooperative study of monitoring methodology for a Regional Monitoring Program (see below). She is evaluating factors contributing to variation in off-road point counts, including time of day, time of season, observer, year, biogeographic region, and habitat. This program involves critical contributions from biologists across the state. Additional research is focused on the timing of spring migration with the phenology of green-up in the Anchorage area, as well as on demography of selected species of birds.
- Anne Morkill, BLM, began a new study using point counts to determine the status of bird and vegetation communities on mined and unmined riparian corridors in the Hogatza River watershed in Central Alaska.
- Ruth Gronquist, BLM, began a new study using area searches to inventory birds in relation to vegetation communities along riparian corridors undisturbed by mining in the Steese National Conservation Unit in Central Alaska.
- Dave Yokel, BLM, completed the second year of a study to develop a landcover classification for the National Petroleum Reserve-Alaska. This classification will provide a baseline of avian habitats.
- Jeff Hughes, ADF&G, has continued his long-term monitoring study of Osprey in Central and Southcoastal Alaska.
- Peter Bente and John Wright, ADF&G, continued their long-term surveys of Peregrine Falcons throughout Alaska. With delisting of *Falco peregrinus tundrius* and the impending delisting of *F. p. anatum*, continued field work is uncertain.
- Dana Nordmeyer, Oregon State University, continued her study of the effects of jet aircraft overflights on Peregrine Falcon behavior and productivity along the Tanana River. In a companion study, Angela Palmer, also of OSU, examined the effects of overflights on the falcons' rates of provisioning nestlings.
- Kim Titus, Rich Lowell, and Craig Flatten, ADF&G, in cooperation with Gene DeGayner, FS, continued their study of habitat selection and home range size in the Queen Charlotte Island Goshawk on the Tongass NF.

- Terry Doyle, FWS, conducted a pilot effort to establish a monitoring program that sampled all of the major bird communities on Tetlin NWR. Bird species diversity was highest in tall shrub habitat; it was lowest but highly variable in coniferous forests. He found that it was impossible to select strictly random samples of habitat patches because of inaccessibility and that sample sizes would probably not be adequate to address population trends on the refuge alone. This points to the need to have a coordinated, cooperative program in which efforts are combined across different land management units within a biogeographic region.
- Mike Fleming, EROS Data Center, USGS, has been working on a map of the Alaska Land Characteristics, which is a statewide landcover map based on a composite NDVI index. The index is a measure of seasonal patterns of vegetation greenness, and these characteristics are being translated into vegetative communities. A draft statewide map is now available, but requires extensive ground-truthing. A list was compiled at the annual meeting of individuals willing to evaluate accuracy of sections of the map covering areas with which they are familiar.
- Mary Willson, Forest Sciences Laboratory, FS, has been completing her study of the nesting ecology of forest birds in deciduous and coniferous forests of Southeastern Alaska.
- Tony DeSanto, Forest Sciences Laboratory, FS, has been conducting a study of alternatives to clear-cutting in the Tongass NF. She has been using point counts to monitor forest bird populations in nine different treatments. She has also been censusing birds and monitoring the reproductive success of Winter Wrens in stands that had been selectively cut 100 years ago.
- Pierre Deviche and several of his students at the Institute of Arctic Biology, UAF, have been conducting field and laboratory research on the physiology of several different species. Pierre Deviche has been examining factors that relate to and potentially account for large individual differences in body mass of Common Redpolls wintering in Central Alaska. He has also continued his studies of age-related differences in the rate of reproductive development in male Dark-eyed Juncos during spring. Renée Crain has been examining environmental control of reproduction in White-winged Crossbills, and Cynthia Gullledge has been studying age-related differences in the vocal control system in Dark-eyed Juncos.
- Susan Sharbaugh, Department of Biology and Wildlife, UAF, has been studying the winter metabolic rates and use of nocturnal hypothermia in Black-capped Chickadees wintering in Central Alaska.

1995 Annual Meeting Topics

- Several presentations were made describing studies that are being conducted across Alaska. We agreed that many studies have been conducted for long enough that we need to organize more formal presentations of results. A passerine session will be held at the Alaska Bird Conference in April 1996 to highlight some of the initial results of the program.

1996 Action Plan

1. Continue ongoing studies.
2. Evaluate accuracy of vegetation classifications on the Alaska Land Characteristics map compiled by Mike Fleming, EROS Data Center, USGS, Anchorage.
3. Identify research needs by biogeographic region and initiate projects that address important species and habitats.
4. Organize a passerine session for the Alaska Bird Conference in April 1996.

OFF-ROAD POINT COUNTS

1995 Accomplishments

Identifying and counting all birds seen and heard during a given time period at fixed points each year is one method for monitoring trends in landbird populations. Point counts require a relatively modest amount of effort and can be conducted with limited resources. During 1995, counts were conducted at over 1,400 points within all six biogeographic regions of Alaska by an array of land managers and organizations (Table 4.).

Over 75% of these points are part of a pilot study led by Colleen Handel (NBS) and sponsored by Boreal Partners in Flight to develop a standardized methodology for conducting off-road point counts in Alaska. The primary goals of this study are to determine when to survey during the season in different biogeographic regions, whether changing observers between years would significantly affect estimates of population trends, and what sample sizes would be required to detect certain levels of population changes over a specified period of time. Survey methods involve recording all birds detected within a 5-minute period at an unlimited distance around a series of 12 points, which are separated by at least 250 m in forested areas and 500 m in open habitats. Birds

are classified as either within or outside of a 50-m radius of the point, and data on habitat are collected inside the circle to document bird-habitat associations.

Over the past four years (1992-1995), there has been a total of 120 routes (with 12 or more points per route) surveyed across Alaska, encompassing all six biogeographic regions. Most of these routes are in Central Alaska (45) and moderate numbers have been surveyed in the Southcoastal (24), Southwestern (19), and Southeastern (16) regions. Significant gaps occur in coverage of Western (11) and Northern (5) Alaska. We are starting to build enough continuity in the program that it will provide baseline data for long-term monitoring. Among the 120 routes, 11 have been surveyed all four years, 35 have been repeated for 3 years, 42 were replicated 2 years, and 32 have been surveyed only 1 year. Among the last group, 10 were new starts in 1995, 3 are being surveyed biannually, and the remaining 19 were discontinued for various reasons. Overall, the level of effort in 1995 was fairly equivalent to that in 1994. In 1995, 91 routes were censused, compared with 98 in 1994, 65 in 1993, and only 11 in 1992.

1996 Action Plan

1. Analyze data to develop recommendations for a statewide monitoring program for Alaska.
2. Maintain existing coverage of off-road point counts to build strong baseline for monitoring populations.
3. Increase coverage in Western and Northern Alaska.
4. Collect data on habitat for those routes still lacking the information.

Table 4. Effort and location for off-road point counts conducted in Alaska and Yukon in 1995.

Biogeographic Region	Agency/ NGO	Land unit	No. 12-point transects	No. other points	Total points
Northern	BLM	Arctic District	1		12
Western Alaska		All areas	6	10	82
	FWS	Togiak NWR	3		36
	FWS	Yukon Delta NWR	2	10	34
	NPS	Gates of the Arctic NP	1		12
Southwestern		All areas	12		144
	FWS	Alaska Maritime NWR	8		96
	FWS	Alaska Peninsula/Becharof NWR	4		48
Central		All areas	40	39	519
	ABO/NPS	Denali NP	9		108
	BLM	Northern District		20	20
	BLM	Steese-White Mtn. District	1		12
	FWS	Kanutu NWR	7		84
	FWS	NAES	2		24
	FWS	Innoko NWR	3		36
	FWS	Tetlin NWR	7	19	103
	FWS	Yukon Flats NWR	6		72
	NPS	Gates of the Arctic NP	2		24
	NPS	Wrangell-St. Elias NPP	3		36
	Southcoastal		All areas	18	177
BLM		Anchorage District	1	1	13
FS		Chugach NF-Cordova RD	4	11	59
FS		Chugach NF-Seward RD		125	125
FWS/DOD		Ft. Richardson		40	40
NBS		Anchorage bowl	13		156
Southeastern			All areas	14	3
	FS	Tongass-Hoonah RD	3		36
	FS	Tongass-Juneau RD	10		120
	FWS	Alaska Maritime NWR		3	3
	NPS	Klondike-Gold Rush NHP	1		12
	Yukon Territory		All areas		108
CWS		LaBiche River Valley		50	50
CWS		Beaver River Valley		58	58
All areas					
			91	337	1,429

INFORMATION AND EDUCATION

compiled by Charla Sterne

1995 INTERNATIONAL MIGRATORY BIRD DAY

The theme for IMBD 1995 was “Sharing a Passion for Birds” and as in previous years, BPIF members from Alaska and Yukon did just that. BPIF participants from 4 federal agencies, 1 state agency and 3 non-governmental organizations conducted 25 activities, 2 of which were characterized as “cooperative”. Activities ranged from netting demonstrations to radio and television spots. Charla Sterne produced a 11x17” mini-poster to assist in marketing the event. The poster provided some background information on migratory birds and allowed space for field stations to announce their individual events. Brad Andres distributed these to all IMBD organizers. The 25 events summarized below represent a tremendous commitment of time and energy by the organizers. You should all take pride in your contribution to making IMDB 1995 a success in Alaska.

Contact	Activity
Denise Witte, Poppy Benson, AMNWR Homer	Shorebird festival
Jeff Williams, AMNWR Aleutian Is. Unit	N.A. Migration Count
Donna Dewhurst, AK Peninsula/Becharof NWR	N.A. Migration Count, mist-netting demonstration
Deborah Rudis, USFWS, Juneau	Juneau Spring Count
Beverly Skinner, Innoko NWR	“Alaska Naturally” radio show
Barry Whitehill, Kanuti NWR	School presentations
Heather Johnson, Koyukuk/Nowitna NWR	N.A. Migration Count, community bird walks
Brad Andres, USFWS, Anchorage	Mist-netting demonstration
Rod King, USFWS, Fairbanks	School presentations
Janet Warburton, Selawik NWR & NPS NW areas	Educator Workshop, mist-netting demonstration
Terry Doyle, Tetlin NWR	N. A. Migration Count
Heather Johnson, Togiak NWR	NMB “series” school presentation, annual 4th grade bird count
Brian McCaffery, Yukon Delta NWR	Bird watching field trip
Mike Vivion, Yukon Flats NWR	School presentations
Alaska Dept. of Fish & Game, Anchorage	Naturalists at Potter Marsh, TLC birds
Deborah Kary, Lezlie Murray, Tongass NF	School presentation
Lisa Shon Jodwalis, APLIC, Fairbanks	Bulletin board display

Sandra Frost, Kellee Rose, Chugach NF &
Cordova Chamber of Commerce
Jackie Canterbury, Tongass NF, Ketchikan

Judi Falk, Tongass NF, Juneau

Dorin Walter, Tongass NF, Yakutat
Carol McIntyre, NPS, Fairbanks
Nan Eagleson, Denali NP Wilderness Centers
Julia & Trevor Ricketts, Anchorage Audubon Soc.

Copper R. Delta Shorebird Festival

Radio show, classroom activities,
bird walk, mist-netting demo
NMB exhibits, birdwalk, mist-
netting demonstration
Community class, birdwalk
N.A. Migration Count
Birding at Wonder Lake
Spring shorebird field trips

OTHER INFORMATION AND EDUCATION PROJECTS

Attached as appendices are several documents produced by the Western Working Group that concern conservation planning and other topics of general interest to BPIF members.

Committee members present at the 1995 meeting:

Claire Marsden, Anchorage Audubon Society
Julia Ricketts, Anchorage Audubon Society
Ruth Gronquist, Bureau of Land Management
Janet Warburton, Selawik NWR
Heather Johnson, US Fish and Wildlife Service
Mark Schroeder, National Park Service
Gene Augustine, US Air Force
Charla Sterne, National Biological Service

1996 Action Items

1. Update list of public outreach mechanisms (completed 2/95 and ongoing, Heather Johnson 1996 annual report)
2. Coordinate awareness of and activities for International Migratory Bird Day (May 13-20, 1995, completed 4/95; Charla Sterne for 1996).
3. Develop information on shade-grown coffee, coordinate with the Audubon Society and present at annual meeting at Cape May (not completed by 10/95).
4. "Alaskanize" PIF slide show (not completed by 12/95; obtain replacement and new slides, revise script, consider converting from slide to video, Mark Schroeder and Ruth Gronquist, 12/96).

5. Adapt *Songbird Blues* kits for use in Alaska schools (9/95; ongoing; complete Forest Service kits, Ellen Campbell, 12/96).
6. Develop pamphlet describing Alaska's Neotropical migratory birds and their conservation issues (Elmendorf or Ft. Rich may be doing a similar project for the Anchorage area, contact Allen Richmond, continue to pursue funding. John Wright, Gene Augustine, Brad Andres; 12/96).
7. Update mailing list and project directory (mailing list completed 2/96, Project directory to be completed by Colleen Handel, 6/1/96).
8. Attend Western Working Group meetings and report on activities of BPIF (Brad Andres; ongoing).
9. Develop and distribute CD of Alaska bird songs (John Wright; 6/96).
10. Have at least 1 representative from each agency and, at least, 1 NGO representative attend the Cape May meeting (completed 10/95).
11. Provide copies of Colleen Handel's overview presentation (one for each agency) to show to managers and administrators (Ruth Gronquist, Colleen Handel; 12/96).
12. Host an interagency open house during the next BPIF meeting to provide an overview of PIF and BPIF activities (Gene Augustine, Julie Ricketts, Heather Johnson; 12/96).
13. Develop, print, distribute poster map of migration pathways of Alaska landbird migrants (Brad Andres; 12/96).

NEW RESOURCES

Outreach mechanisms

Please make the following changes to the outreach mechanism for articles or announcements list you already have:

1. Fairbanks Daily News-Miner
Kelly Bostian, **Managing** Editor
Tim Mowry, Outdoors Editor
2. **The Discovery Foundation**
"Discoveries"
P.O. Box 21867
Juneau, AK 99802

Books and Other Publications

DeGraaf, R. M., and J. H. Rappole. 1995. Neotropical migratory birds: natural history, distribution, and population change. Cornell University Press, Ithaca, New York. 676pp.

Green, J. C. 1995. Birds and forests: a management and conservation guide. Minnesota Department of Natural Resources, St. Paul. 182pp.

Martin, T. E., and D. M. Finch. 1995. Ecology and management of neotropical migratory birds: a synthesis and review of critical issues. Oxford University Press, New York. 489pp.

Ralph, C. J., J. R. Sauer, and S. Droege. 1995. Monitoring bird populations by point counts. U. S. Forest Service, General Technical Report PSW-GTR-149, Pacific Southwest Research Station, Albany, California. 181pp.

Rappole, J. H. 1995. The ecology of migrant birds: a neotropical perspective. Smithsonian Institution Press, Washington, D. C. 269pp.

Schelhas, J., and R. Greenburg. 1996. Forest Patches in tropical landscapes. Island Press, Washington, D. C. 426pp.

Torgersen, T. R., and A. S. Torgersen. 1995. Save our birds – save our forests. U. S. Forest Service, Pacific Northwest Research Station, Portland, Oregon (pamphlet).

U. S. Forest Service. 1995. Finding birds in Juneau. Alaska Natural History Association, Juneau, Alaska.

Videos and Slide Shows

“Biodiversity for forests and farms”, Cornell University Media Services Resource Center, Ithaca, New York.

“Migrant birds: a troubled future?”, western version of PIF slide show, Cornell Laboratory of Ornithology, Ithaca, New York.

“Never a silent spring: neotropical migratory bird conservation in the Southeast”, video, U. S. Fish and Wildlife Service, Region 4, Atlanta, Georgia.

Internet Sites

Author	Address
Ornithological Council	http://www.nmnh.si.edu/BIRDNET/
American Ornithologists' Union	http://www.nmnh.si.edu/BIRDNET/AOU/
Association of Field Ornithologists	http://www.nmnh.si.edu/BIRDNET/AFO/
Raptor Research Foundation	http://www.nmnh.si.edu/BIRDNET/RRF/
Bird Watching and Related Info	http://www.gorp.com/gorp/activity/birding.htm
Bird on the Web	http://www.zender.com.birder
Nature and Wildlife	http://www.gorp.com/gorp/activity/wildlife.htm
Yukon Bird Club	http://www.yukonweb.wis.net/community/ybc/
USFWS, Region 7	http://www.fws.gov/~r7hpirn/
Shorebird Sister Schools	http://www.fws.gov/~r7enved/sssp.html
Partners in Flight	http://www.nbs.gov/pif
BBS/CBCs	http://www.mbr.nbs.gov/
Bird Monitoring in North America	http://www.im.nbs.gov/birds.html
Monitoring advise and software	http://www.im.nbs.gov/statistics/statist.html

MANAGEMENT

compiled by Anne Morkill

Eleven biologists met during the Management Committee breakout at the December 1995 BPIF Annual Meeting to discuss our progress and accomplishments in implementing the 1995 Action Plan. The discussion centered on the utility of the landbird species list for guiding habitat conservation and species monitoring efforts in Alaska. A final version of the species list is still due for completion and distribution.

During the past year, Management Committee Chair Anne Morkill distributed several papers dealing with conservation planning for neotropical migratory birds to committee members and Bioregional Coordinators as a means to stimulate ideas on how BPIF can implement such efforts in Alaska.

Brad Andres gave a presentation on the PIF Bird Conservation Action Plan, the primary goal of which is to use the tools of PIF to actively conserve birds and their habitats and associated human use of avian resources.

Biogeographic regions continue to make progress in evaluating the species list by region and integrating with the original prioritization scheme developed by PIF. The Southeast region completed it's regional listing of species and associated habitats of concern.

Management Committee members discussed several conservation issues facing neotropical migratory birds, including salvage logging in the Chugach National Forest and proposed increases in timber harvest in the Tanana Valley State Forest. There was general agreement that anyone with a particular concern should draft a resolution and forward it to the BPIF Chair for consideration.

BIOGEOGRAPHICAL REGIONS

SOUTHCOASTAL AND SOUTHEASTERN

Compiled by Colleen M. Handel

Members of the Southcoastal and Southeastern Regional Working Groups identified five major issues that should be addressed for Neotropical migrants and other landbirds in the two regions. Below is a brief description of each issue, a list of the species, geographic areas and habitats most likely to be affected, and an outline of specific actions that should be taken in the arenas of management, monitoring, research, and education.

Issue #1 – Timber harvesting

Timber harvesting is currently the top issue facing the Southeastern Working Group and is likely to become an important issue for the Southcoastal Working Group in the near future. Specific geographic areas of concern with Southeastern Alaska include Tongass National Forest, Haines State Forest and Native Corporation lands. Specific areas of concern in Southcoastal Alaska include Chugach National Forest, Cape Yakataga, Kenai National Wildlife Refuge, and other lands on the Kenai Peninsula and Prince William Sound area managed by the State, Native Corporations, and private landowners.

Several species of landbirds in Southeastern Alaska were identified as of special concern because of particular affinities to the Pacific Coastal rainforest: Northern Goshawk, Spruce Grouse, Vaux's Swift, Rufous Hummingbird, Red-bellied Sapsucker, Pacific-slope Flycatcher, Varied Thrush, Golden-crowned Kinglet, Townsend's Warbler, and Red Crossbill. An overlapping list of species was identified for Southcoastal Alaska forests: Northern Goshawk, Merlin, Northern Saw-whet Owl, Rufous Hummingbird, Olive-sided Flycatcher, Steller's Jay, Chestnut-backed Chickadee, Brown Creeper, Golden-crowned Kinglet, Townsend's Warbler, and Red Crossbill. The Working Group recommended that managers needed better information on the requirements of these birds for breeding and foraging habitats. Two of these species, Northern Goshawk and Olive-sided Flycatcher, have been identified by the U. S. Fish and Wildlife Service as Species of Concern, and deserve particular attention.

Three primary issues associated with timber harvest were identified as of special concern for avian populations:

- Effects of the removal of trees, changes in habitat configurations, and revegetation treatments.
- Effects of road-building that accompanies timber harvesting, including fragmentation of forested habitats, increased human access, and changes to drainage patterns.
- Effects of log-transfer activities in estuarine areas.

The Southcoastal and Southeastern Working Groups identified several actions that should be taken by Boreal Partners in Flight during 1996:

- Develop a plan to inventory and monitor areas before logging occurs. This should be done across a large scale as well as within particular areas targeted for harvest so that areas particularly important to landbirds can be identified.
- Develop a plan to monitor landbird populations after logging has occurred.
- Support research on the effects of different harvest strategies.
- Support research on minimum area requirements for sensitive species.
- Compile relevant information on landbirds so that Best Management Practices can be developed for timber harvesting in these regions.

Issue #2: Spruce bark beetle infestation

There is currently a widespread infestation of spruce bark beetles in Southcoastal Alaska. Management areas that are particularly affected are the Chugach National Forest, Kenai National Wildlife Refuge, Wrangell-St. Elias National Park and Preserve, Chugach State Park, and lands administered by the State of Alaska. Habitats that are most affected are coniferous and mixed deciduous-coniferous forests. These habitats support breeding populations of two formally designated Species of Concern: Northern Goshawk and Olive-sided Flycatcher. Other landbird species that are of particular concern because of their dependence on these habitats include: Great Horned Owl, Northern Hawk-Owl, Great Gray Owl, Boreal Owl, Northern Saw-whet Owl, Three-toed Woodpecker, Black-backed Woodpecker, Gray Jay, Steller's Jay, Black-capped Chickadee, Boreal Chickadee, Red-breasted Nuthatch, Brown Creeper, Golden-crowned Kinglet, Ruby-crowned Kinglet, Varied Thrush, Townsend's Warbler, Pine Grosbeak, Red Crossbill, and White-winged Crossbill. Changes in forest structure and composition have the potential to affect many other species that are typically associated with habitats lacking coniferous canopies.

Under the Federal Emergency Salvage Law (Public Law 104-19, § 2001), the Chugach National Forest has proposed to salvage timber in several different areas encompassing about 181,500 acres. Timber targeted for salvage would include not only trees that have been infested but also healthy trees in nearby areas. Other land management agencies and private landowners in the region are also faced with decisions about how to respond to actual or potential infestations. The Southcoastal Working Group identified several questions that need to be addressed to guide future management decisions:

- What would be the long-term effects of this natural insect outbreak on avian populations if no management treatment were applied? How would the structure and composition of forest habitats be altered? What species might benefit from increased availability of insect larvae for food resources, diseased trees for excavation of nesting cavities, or dead snags for song or feeding perches? What impacts might occur from opening of the canopy due to death of coniferous trees?
- What would be the effect of different possible types of management treatments on populations of various landbird species? How would population dynamics be affected by timber harvests of various patch sizes, fragmentation of habitats, changes in forest structure through burning, selective cutting, replanting, or scarification of sites? How would different treatments influence the dynamics of the insect populations, structural characteristics of the vegetation, and food resources for birds?

The Southcoastal Working Group identified several actions that should be taken by Boreal Partners in Flight during 1996:

- Support research on the effects of spruce bark beetle infestation and potential management treatments on the populations of landbird species and community dynamics.
- Provide to appropriate agencies any information available on landbirds likely to be affected in these areas to develop Best Management Practices for salvage timber harvest, control of spruce bark beetle infestations, and revegetation.
- Gather information on the extent of spruce bark beetle infestation and disseminate to biologists and managers with concerns about landbird populations in the region.

Issue #3: Urbanization

Another long-term concern in the Southcoastal Region is the progressive loss of landbird habitat due to urbanization. Areas that are being affected include: the Anchorage bowl (Eagle River to Girdwood), the Soldotna/Sterling/Kenai area, the Kenai River corridor, and Homer. Specific

issues include direct loss of forested and wetland habitats due to development, fragmentation of forests due to road-building (including forests managed by Chugach National Forest and Kenai National Wildlife Refuge), management of lands for cutting firewood and maintaining airstrips (particularly by Department of Defense), and management of the Heritage Land Bank by the Municipality of Anchorage.

The Southcoastal Working Group identified several actions that should be taken by Boreal Partners in Flight during 1996:

- Educate planners (federal, state, borough, municipal) about the effects of certain types of development on the natural landscape and potential impacts on avian and other wildlife populations.
- Assist with the Municipality of Anchorage Park Wildlife Inventory that is in progress and make this information available to planners.
- Identifying avian species that are of high priority within Municipal parks.
- Educating State Park personnel about avian species and their habitat requirements.
- Providing Anchorage Audubon Society information on avian species and their habitat requirements so that they can disseminate it further for education and conservation programs.
- Working with Department of Defense personnel on Fort Richardson Army Base and Elmendorf Air Force Base in planning firewood cutting and other activities that affect the configuration of the landscape.

Issue #4: Changes in land ownership

This issue was identified as a potential problem of management concern as lands continue to be conveyed to different landowners, creating a patchwork of ownership and potential management conflicts. The Working Group recommended that we attempt to work with all landowners to develop a cohesive management plan that will ensure conservation of landbird populations throughout the region. A single action was identified:

- Assemble and distribute the most current information on land conveyances in Southeastern and Southcoastal Alaska to all individuals involved in planning or making decisions that influence the habitat of landbirds.

Issue #5: Increases in recreational and other activities

As human populations continue to increase, and tourism increases within the state, there will be increased disturbance of certain areas due to recreational activities. There will also be increased demand for information on wildlife of the areas and an opportunity to educate the public about wildlife resources and habitat requirements. Several long-term actions were recommended, all relating to the need for information on associations between birds and habitats:

- Conduct a broad inventory of avian species throughout Southeastern and Southcoastal Alaska, which links the distribution of species to habitats.
- Contribute to ground-truthing the draft map of habitat types of Alaska that has been produced by EROS Data Center, U. S. Geological Survey, Anchorage, Alaska.
- Distribute information available on habitat associations of landbird species, particularly for species of concern, to State and Municipal Parks, Municipality of Anchorage planners, State Recreation Areas, and federal land management units.

WESTERN AND SOUTHWESTERN

At the 1995 BPIF meeting, 5 representatives from the western region discussed our role in both the Boreal and National Partners in Flight program. We decided that both field work and educational efforts should focus on two distinctive aspects of western Alaska landbird biology, paleotropical migrants and tall shrub habitats. First, western Alaska plays host to half a dozen species of breeding paleotropical migrants. Although several of these species also nest in northern Alaska in good numbers, paleotropical migrants are most diverse and abundant in western Alaska. Second, western Alaska's tall shrub habitats, particularly in riparian areas, support large numbers of long-distance neotropical migrants. Observers on western Alaska BBS routes in 1995 recorded the state-wide high count for five of these species, including alder flycatcher, gray-cheeked thrush, blackpoll warbler, yellow warbler, and northern waterthrush. The first three species are among only six songbirds in Alaska on the USFWS Species of Management Concern list. Just as Alaska can serve as a "control" region when evaluating the causes of population declines for passerines elsewhere in the United States, the relatively undeveloped tall shrub communities of western Alaska can serve as a control for evaluating populations of shrub-dwelling passerines more susceptible to disturbance or habitat loss elsewhere in Alaska.

Monitoring

1. Maintain current BBS routes (road and river).
2. Maintain/establish ≥ 3 ORPC routes on each public land management unit.
3. Maintain existing MAPS stations in order to collect multi-year demographic data.
4. Do **NOT** initiate additional MAPS sites until program evaluation has been completed.
5. If resources allow expansion of existing programs, initiate new BBS and ORPC routes. Implement and/or formalize additional river routes. To the extent possible, focus monitoring efforts on habitats supporting tall-shrub species and paleotropical migrants.
6. Produce document summarizing results of monitoring efforts for paleotropical migrants in western Alaska. Evaluate feasibility of monitoring these species and present to BPIF at 1996 annual meeting (BJM coordinating).

Research

We concluded that establishing an adequate network of monitoring sites (BBS, ORPC) was the highest priority in the western biogeographic region. At this time, fiscal and personnel resources should not be diverted from monitoring efforts in order to initiate research.

Issues/Actions

Same as research. Additional information on distribution, relative abundance (and annual variation in abundance indices), population trends, and habitats will be necessary before we can identify and cogently address both research hypotheses and conservation issues.

Information and Education

1. Present Songbird Blues curriculum in at least Bethel, Dillingham, Kotzebue, and Nome.
2. Incorporate Songbird Blues into environmental education camp curricula, where possible (including Cape Peirce, Nushagak, and Nyac).
3. Develop educational materials, highlighting Yellow Wagtail as an "ambassador" species, for communicating ideas about long-distance migrant birds in western Alaska (BJM coordinating).

ORGANIZATIONAL STRUCTURE

OFFICERS

Chair	Brad Andres
Secretary	Barbara Boyle

BIOREGIONAL COORDINATORS

Northern/Central	Dave Yokel/John Wright
Western/Southwestern	Brian McCaffery/Donna Dewhurst
Southcoastal	Colleen Handel
Southeastern	Ellen Campbell

INTERNATIONAL COORDINATOR Colleen Handel

AGENCY COORDINATORS

Alaska Dept. of Fish and Game	John Wright
U. S. Bureau of Land Management	Anne Morkill
U. S. Fish and Wildlife Service	Brad Andres
U. S. Forest Service	Ellen Campbell
National Biological Survey	Colleen Handel
National Park Service	Mark Schroeder
U.S. Air Force	Gene Augustine
U.S. Army	Bill Quirk

MONITORING AND RESEARCH COMMITTEE

Chair, BBS:	Brad Andres
Chair, Netting and Banding:	Donna Dewhurst
Chair, Off-Road Point Counts:	Colleen Handel

INFORMATION AND EDUCATION COMMITTEE – Chair: Ruth Gronquist

MANAGEMENT COMMITTEE – Chair: Anne Morkill

APPENDICES

BOREAL PARTNERS IN FLIGHT MAILING LIST – JUNE 1996

WESTERN WORKING GROUP NEWSLETTER, APRIL 1996

REPORT FROM WESTERN REGIONAL COORDINATOR

WESTERN WORKING GROUP RESOURCE DIRECTORY

BRIEFING ON SWAINSON'S HAWK DIE-OFFS IN ARGENTINA

BOREAL PARTNERS IN FLIGHT MAILING LIST – JUNE 1996

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