

8th CMMN-RCSM National Meeting / 8^e Rencontre nationale du RCSM-CMMN
13-16 October 2011, Naramata Centre, Naramata, BC
Hosted by Vaseux Lake Bird Observatory (Okanagan Similkameen Conservation Alliance)

Meeting Summary

Prepared by Audrey Heagy, Marie-Anne Hudson, and Marcel Gahbauer
November 2011



Réseau canadien
de surveillance
des migrations



Canadian Migration
Monitoring Network

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1. INTRODUCTION

The eighth national meeting of the Canadian Migration Monitoring Network – Réseau canadien de surveillance des migrations (CMMN-RCSM) was held at the Naramata Centre located in Naramata, British Columbia from 13 to 16 October, 2011. The meeting was hosted by the Vaseux Lake Bird Observatory and its supporting organization, the Okanagan Similkameen Conservation Alliance. The meeting organizing committee consisted of Dick Cannings (local host), Audrey Heagy, Wendy Easton and the co-chairs of the CMMN Steering Committee (Bruno Drolet and Lance Laviolette).

Participation in this meeting was excellent. A total of 48 people from across Canada attended all or part of the meeting. The CMMN member stations not represented at the meeting all provided station updates. A list of meeting participants, their station affiliation(s), and contact information are provided in Appendix 1.

The format of the meeting was similar to previous years and included brief updates from the member stations and partner organizations, a report from the Steering Committee, a workshop on CMMN development, and a variety of scientific and technical presentations. A copy of the meeting final agenda is included as Appendix 2.

Copies of the various presentations are available on the CMMN-RCSM NatureCounts website at: <http://www.birdscanada.org/birdmon/cmmn/resources.jsp>. **Note:** You must be registered as a participant in the CMMN NatureCounts project to view these presentations. To register, create a User Profile with your login and password. New registrations are usually approved within 24 hours (next business day). A CD with the presentations and other meeting-related information is available upon request from aheagy@bsc-eoc.org.

2. STATION REPORTS

Twenty-four stations (including four pilot/associate stations) provided short station updates, including three member stations that did not have a representative at the meeting. The station reports all followed a standard template. As usual, we ran over the time allocated for this section but there was general agreement that the station reports are a very important part of these meetings.

Common problems identified by various stations included:

- **Staffing:** difficulty finding qualified staff; need for a paid assistant; difficulty recruiting long-term volunteers
- **Governance:** succession planning
- **Funding:** ongoing problem
- **Habitat management and change:** what to do?
- **Scientific direction:** stations are looking for scientific and technical advisors

Positive developments included:

- **Funding:** several stations had established an endowment fund since 2009

- **Facilities:** several stations have or are planning to expand/improve their facility to accommodate visitors and educational groups
- **Active research projects:** several stations have ongoing research projects
- **Publications:** stations have played a role in several recent scientific papers

3. STEERING COMMITTEE REPORT 2009-2011

Highlights from the Steering Committee Report covering activities since the 2009 meeting included:

- Held 11 teleconference meetings
- Completed the station renewal process for the existing members
- Approved addition of Pelee Island Bird Observatory as a Full Member
- Approved an amendment to the Terms of Reference (by unanimous vote) to remove the six-year term limitation on CWS and BSC representatives to provide flexibility in filling these positions
- Completed the election process of new station representatives for the Steering Committee
- Four newly elected stations representatives are: **Ted Cheskey, Marcel Gahbauer, Ann Nightingale, and Bill Taylor**
- Produced and distributed the station self-evaluation checklist to aid stations in the monitoring of their protocol execution
- Published article on banding in Atlantic Canada in BSC's *BirdWatch* magazine
- Species trend and data summaries for CMMN stations are available via the Avian Knowledge Network portal on NatureCounts CMMN pages at <http://www.birdscanada.org/birdmon/cmmn/main.jsp>
- Additional activities are included in the Bird Studies Canada update (item C), the Environment Canada update (item D), and the presentation on the CMMN isotope project results (item E)

Discussion following session on steering committee update:

- Station self-evaluation checklist was circulated to member stations in July; not everyone has seen it
- Need to clarify the process whereby Provisional Members transition to Full Members. Who is responsible for initiating this?
- There was considerable discussion of the pros and cons of the amendment to the Steering Committee Terms of Reference that removed the 6-year limit for appointed positions. Suggestions for maintaining the balance among stations, BSC and CWS reps on the committee and maintaining the effectiveness of the committee were:
 - Could require some level of turnover in the appointed positions
 - Could give elected station reps the right to confirm the BSC & CWS assignments

ACTIONS ARISING:

- Audrey to re-send station self-evaluation checklist to all stations, the regional CWS contacts, and post in the Resources section of the NatureCounts website
- Jon to contact Andrew Harcombe at Tatlayoko Lake BO re steps required to become a full member station

- Audrey to circulate revised Terms of Reference to all stations, the regional CWS contacts, and post in the Resources section of the NatureCounts website (continued on next page)
- Steering Committee to review the amendment to the Terms of Reference re the 6-year limit and consider the alternatives proposed at the meeting

4. BIRD STUDIES CANADA UPDATES

a. CMMN Trend Analysis presentation

Highlights from the presentation by Tara Crewe:

- BSC has run trend analysis for all species detected at least once during 50% of years surveyed for 17 stations with data up until 2010
- For first time, the analysis includes rare species and other species previously excluded from analyses (breeders, waterbirds, flocking species, etc.)
- Results are being used for COSEWIC status reports (e.g. Yellow-breasted Chat at LPBO)
- PDF of trend graphs has been sent to each station for review
- Stations are asked to review the graphs for their stations and identify where trend is affected by change in protocol, change in habitat, or other factors that need to be flagged
- Stations also need to review the migration windows for their station for the “new” species to see if they need to be adjusted (any changes will tracked)

Discussion points (see also discussion regarding flagging system):

- Stations need detailed instructions, including ‘how-to’ and why changes to migration windows should be made
- Need to clarify the on-line trend graphs and migration windows graphs (add clear legends, etc.)
- Need to identify 1 person for each station
- Publish trends only after the station has approved for that species/season
- Need to ensure that this contact person has specified which data columns should be analyzed for each species (this feeds into data flagging input)

ACTIONS ARISING:

- Tara and Jon (and broader technical committee?) to develop clear instructions for the station-level review of migration windows and trend graphs
- Each station will need to identify one person to be their lead on the technical review for their station
- Denis and Tara to improve legends/labelling for the online CMMN graphs on NatureCounts

b. Migration Monitoring Population Trend Reliability Issues

Highlights from presentation by Jon McCracken:

- Need to assess the reliability of the station trends in terms of how well these local trends represent species population trends across larger landscapes
- Two types of issues to consider when assessing trend reliability:
 - Species-specific issues related to species behaviour and biology (e.g., general rarity, flocking species, irruptive/nomadic/sedentary species, detectability considerations, etc.)
 - Station-specific considerations related to local situation and station operations (e.g., breeding/residency status, coverage windows, protocol changes, habitat change, etc.)
- Need to develop trend reliability flagging system that would be associated with the trend information presented for each species/station combination before making the new trend analysis results available on the internet
- Will require technical committee and input from each station

Points raised during the ensuing discussion on trend reliability flagging system and how to proceed with making trend information available:

- User-friendly flagging system is required before trends can be published:
 - Flags (and meaning of the various flags) must be obvious
 - Flags must work in different formats (online, print, graph, tables, etc.)
- Consider whether need two-tier system to address reliability issues (e.g. change in protocol) separately from interpretation issues (irruptive species)
- Consider whether to use staged roll-out of trends so can get trend information for species with few issues/higher confidence available ASAP, hold off on other species where less confidence/more concerns

ACTIONS ARISING:

- Jon to take the lead on setting up a technical committee to move forward with trend reliability assessment (by 15 Dec 2011)
- Trend Reliability Committee to identify the biological issues, undertake species assessment, and prepare guidance document for station-level assessment process
- Each station will need to identify one person to be their lead on the trend reliability assessment for their station

TARGETS/MILESTONE:

- Preliminary guidance on station-level assessment to be distributed within six months, i.e., by 15 April 2012
- Trend graphics with appropriate flags and other documentation will be published on the NatureCounts website (have some trends available online ASAP, i.e., by 15 April 2012 if no further station-level review required)

5. ENVIRONMENT CANADA UPDATES

a. Piranga, a bird-bander's aid to identifying, ageing and sexing North American birds

Highlights from presentation by Marie-Anne Hudson:

- **Nature Instruct** website (www.NatureInstruct.org) was developed by Environment Canada (Canadian Wildlife Service - CWS) to train volunteers so that they are better able to participate in EC monitoring programs
- **Dendroica** (bird identification by sight and sound) module available now. Can browse through lists of species found in a particular region, see pictures and listen to songs and calls. Can quiz yourself on songs, photos or both. Can develop your own custom list of species for study.
- **Piranga** module was developed for bird-banders and is similar to Dendroica. Any (registered) user can upload and view images and do quizzes. Piranga has a side-by-side comparison tool and users are able to leave comments. Goal is to cover all species in North America (and possibly South America) with one or more representative image of each age and sex class.
- Contributors add comments describing how they aged/sexed the individual in question
- Current selection of photos is limited; need more banders to upload their photos
- How-to sheet to provide guidance on photography in preparation
- **Catharus** (tentative name) module with 3-minute point-count recordings vetted/audited by > 6 people is under development

ACTION ARISING:

- All banders to upload their photos, along with their comments on how they aged/sexed the individual (ongoing)

b. Bird Banding Office Update

Highlights from the presentation prepared by Lesley Howes (presented by Marie-Anne Hudson):

- **Certificates of Appreciation:** transition from paper to electronic Certificates of Appreciation has been implemented
- Options for **reporting bird bands** have not changed:
 - web reporting page www.reportband.gov
 - toll free number 1-800-327-BAND (2263), or
 - by mail
- **Bandit 3.0:** Everyone should be using Bandit to submit banding data to BBO. Version 3.0 is available and has lots of updates and improvements. Data submitted using Bandit 1.0 is no longer accepted.
 - Foreign recaptures can now be submitted via Bandit 3.0. Any previous submitted reaps should be resubmitted to ensure they are in the database.
 - Bandit can be downloaded by following the link on the BBO website or going directly to the BBL website <http://www.pwrc.usgs.gov/bbl/resources/bandit/software/index.cfm>

- If you are having difficulty with Bandit, read the comprehensive user's manual. If you still cannot figure it out, contact Louise Laurin at the BBO for help.
- **Recommended band sizes and species four letter codes:** updated list available on the BBL website at <http://www.pwrc.usgs.gov/bbl/MANUAL/speclist.cfm>
- **Safe use and application of hard metal bands:** YouTube video produced by BBO on the safe use and application of hard metal bands (<http://www.youtube.com/watch?v=55QtgMZ-J-Q>).

ACTIONS ARISING:

- Banders need to respond promptly to requests from the Bird Banding Office re banding data error flags
- Banders need to review the updated species codes and recommended band size list to ensure they are using the correct codes and the most appropriate band sizes

c. Update on Environment Canada's Avian Monitoring Review and the CMMN/RSCM

Highlights of presentation by Bruno Drolet:

- CWS has been undertaking a comprehensive review of all its monitoring programs with respect to whether they are addressing Environment Canada's monitoring needs
- CMMN contributions relate to five specific EC monitoring needs:
 - Assessing the status of migratory bird populations
 - Species at Risk assessment and listing
 - Minimizing Incidental Take
 - Ensuring that priority habitats and sites for migratory birds are protected and improved
 - Species at Risk Recovery
- CMMN also collects data and provides capacity that is otherwise of value to EC such as:
 - Ancillary banding data on body weight, age/sex ratios
 - Tracking wildlife disease
 - Bander training
 - CMMN data are being used in decision making, e.g. for COSEWIC species assessments
- EC wants to explore options for enhancing CMMN's ability to contribute to EC's monitoring needs, notably on population trends of northern breeding birds
- Several challenges to using CMMN data have been identified and need to be explored (e.g., how to integrate data from multiple stations)
- Need to evaluate CMMN results in context of alternative monitoring approaches including checklist-type migration monitoring and on-the-ground monitoring strategies)

ACTIONS ARISING:

- Environment Canada to continue to explore options to enhance CMMN's ability to contribute to EC's management/policy needs

6. 2009 MEETING FOLLOW-UP PRESENTATIONS

a. International Activities by the CMMN family

Highlights of presentation by Ted Cheskey summarizing the results of his survey of station involvement in international activities:

- 15 stations responded to request for information
- 7 have current international projects
- At least 3 projects inactive
- Scope of International Activities
 - Provide training to international at CMMN station
 - Conducting bird monitoring internationally
 - Provide funds to international group
 - Provide training overseas
 - Encourage ecotourism overseas
 - Promote educational exchanges
- Avian link is important feature
- Next step: establish an international working group?

Discussion points:

- Opportunities to link and share information with other initiatives including the North American Banding Council (NABC, <http://www.nabanding.net>) international committee, and Western Hemisphere Bird Banding Network (RAAHO, <http://www.raaho.info>); Lesley Howes (BBO) and Stu Mackenzie (LPBO) are involved in both groups
- Link to organizations working in Latin America and the Caribbean
- Provide information on training opportunities
- Provide information on opportunities for learning from each other (e.g. twinning)
- Provide list of opportunities for CMMN banders to work at stations in Latin America
- MAPS stations should be considered international work at a station
- What comes after? (track and report on outcomes of international training, etc)
- Consolidate information on how to recruit international volunteers (e.g. Visa process)

ACTIONS ARISING:

- Steering Committee to consider establishing an international working group
- Stations to share information on their international activities via the CMMN list-serve
- Stu Mackenzie to share information on international contacts and reports

b. Stopover Site Fidelity at CMMN Stations

Highlights of presentation by Doug Collister on results of his survey of CMMN stations:

- Transient migrant return to a site during successive migrations appears to be rare phenomenon
- Of 8 stations the responded to request for data return rate ranged from 0% (3 stations) to 0.05% (at Inglewood Bird Sanctuary)
- Interval between encounters ranged from 1 to 7 years

ACTION ARISING:

- Doug Collister to take lead on publication on Stopover Site Fidelity results

c. Standardized Counting for Migration Monitoring

At the 2009 CMMN meeting, Ricky Dunn volunteered to write a guide on migration monitoring components that must be standardized in order to maximize the value of resulting counts for trend analysis. She and David Hussell have prepared a draft document which will be circulated for comment by email after the meeting.

ACTION ARISING:

- Ricky Dunn to send consistency guidelines document to Audrey to circulate to the Steering Committee and stations

d. CMMN Isotope Project Update - Catchment Areas of CMMN Stations

Highlights of the presentation prepared b Steven van Wilgenburg and presented by Ricky Dunn:

- Technical report on the CMMN feather isotope project is nearing completion
- Approach used is combines feather isotope signature information with band recovery information
- Developing maps that overlay migration direction/flyways information based on band recoveries with probable origin based on feather isotope signatures
- Have completed analysis for 22 species
- Expect to send revised technical report to the Isotope Technical Committee for review within about 1 month
- Will collaborate to submit separate analyses in peer-reviewed journals (e.g., moult migration in TEWAs)

Discussion:

- Develop a product (figures?) that can be used by stations?
- Need some interpretation of maps (e.g. 1-page case study, etc.)
- Needs flexibility to allow downloading images (for use in presentations, etc.)

- Members expressed hope for feedback pre-publication
- Focus on network-level rather than station is important
- Members recognize the need to encourage peer-reviewed publication and not only technical reports destined for stations audience

ACTION ARISING:

- Isotope Project Technical Committee to review final draft of the technical report (by end of 2011?)

7. WORKSHOP ON CMMN-RCSM DEVELOPMENT

a. Workshop Format

Break-out groups each explored four themes:

1. Data use by government, researchers, conservation NGOs, etc.
2. Network communications
3. Technical guidance
4. International activities

For each theme, each group was asked to discuss:

- Progress and accomplishments
- Barriers and challenges
- Solutions and actions

b. Summary of Proposed Solutions and Actions Generated by the Break-out Groups

1. Data Use:

- Need protocol for tracking habitat change; several options are available (e.g. MAPS, BBIRD, LPBO, MOSI) – choose one protocol for all stations to use ; circulate details
- Need publication repository on web
- Stations should explore NatureCounts so that they know what data are available
- Encourage national-level publications
- Do we need annual updates of the trend analyses? 1-3 additional data points will not change trends. If not updating annual, then should add explanatory note to published data on web so users do not think the data are out-of-date?
- Market as bird observatory, migration monitoring station or bird research station to encourage perception that more goes on than just banding; consider identifying BICs as “station scientists”
- Create CMMN document describing what we do for the general public and for researchers that can be used by stations
- Create a guide for stations on how to partner with universities
- Write introductory article on the CMMN for *Picoides* (Society of Canadian Ornithologists newsletter) (**Action** - Lisa Priestley)

- Look into centralized data storage (first need to clarify what data are currently being stored by BSC and the Banding Office)

2. Communications:

- Steering Committee (SC) to prepare poster/presentation on CMMN for NAOC 2012
- Need better list-serve instructions, Steering Committee to address this need
- CMMN website should be easy to find (e.g. compare to RPI website)
- Could explore options and new technologies (e.g. host webinars, video chats, use Google+, Facebook)
- Clear direction that users would prefer one central tool for communications/CMMN documents and support materials
- When to communicate? No ideal time as stations are either busy or not operating
- Minutes of SC should be available, or SC should provide an update every 3rd meeting
- Station contacts need to expand use of list-serve by circulating to their membership
- Explore idea of SC station reps role in communications with stations (on regional basis?) to ensure things are ok and moving forward?

3. Technical guidance:

- ID existing technical resources and make them available on CMMN website
- Create and post How-to articles on CMMN website (e.g. how to publish, analyze, start international projects, etc.)
- Ricky Dunn volunteered to be the contact person for stations seeking operational standardization guidance
- ID additional experts or advisors for stations to refer to
- Ensure that stations know that they can contact the station reps on the Steering Committee for advice (post contacts on CMMN website)
- Important for stations to communicate tips and techniques on list-serve (and publish when appropriate in NABB)
- Make station protocols available on CMMN website with summary and contact person

4. International:

- Adopt or invite some U.S. stations to join the CMMN
- Create list of stations capable of taking in international volunteers (**Action** - Stu Mackenzie)
- Perhaps create bulletin board for people interested in volunteering in Canada or internationally (use BIRDBAND or other forums like *Picoides* or *OrnJobs*)
- Create and circulate 360° degree scan of what's already going on; create an annual summary of international activities by CMMN and other groups (**Action** - Stu Mackenzie)

c. Group Builds and Priority Setting

These four themes ended up being grouped into two major themes: **Communication** and **Data Use**.

1. Communication priorities (in no particular order):

- Strengthen list-serve through increased USE (e.g. post tips, Q&A, seasonal summaries)
- Use CMMN website as central repository for resources including:
 - Produce and post information such as webinars (Ricky on operational standardization, Keith or Steve on isotopes, Ted or Stu on international activities), lists for international volunteers, contact list, station protocols
 - Go-to for list-serve registration
 - Go-to for links to various resources (e.g. analyses, raw data, publication repository, technical guidance manuals)
- Increase visibility of the CMMN
 - Submit poster and/or presentation to NAOC in August 2012 (ties into data use priorities)
 - Rebrand CMMN (e.g. observatories instead of banding stations and station scientists instead of banders – also ties into data use priorities)
 - Invite U.S. stations near border to join the network

2. Data use priorities (in no particular order):

- Encourage partnerships
 - Create How-to guide for stations on coordinating and working with universities
 - Create introductory material (about CMMN) for public and potential research partners
- Standardize/Document station-specific habitat change (important) and operational protocol (likely already done)
- Ensure all members understand what's available on NatureCounts
- Explore the idea of centralized data storage (i.e. LAMNA)

STEERING COMMITTEE ACTIONS derived from above priorities (* = short-term):

- *Review/develop strategic plan to move forward
- *Figure out how to maximize use of website and increase ease of updates and visibility
- Finalize publication repository and post on CMMN website (follow up with Denis Lepage re action item from 2009 meeting)
- *Submit NAOC poster/presentation and *Picoides* article summarizing CMMN activities (abstracts due 29 Feb 2012)
- Lisa Priestley to take lead on *Picoides* with support from Wendy Easton
- ID list of how-to or guidance documents that need to be drafted and find authors
- *Set-up sub-committee for flagging trend results (Jon McCracken)
- Publish trends and isotope work
- Investigate how to proceed on habitat change protocol

STATION ACTIONS derived from above priorities (* = short-term):

- *Register and review NatureCounts website
- *Use list-serve and encourage sign up by membership
- *Review trends analyses/graphs or ask for assistance (instructions for the review of migration windows will be circulated for review this fall/winter)
- Review station checklist and send feedback to SC; fill out and return to SC
- Review standardization of protocol document (to be circulated in late fall 2011)

8. TECHNICAL REPORTS ON STATION RESEARCH PROJECTS

Copies of the following presentations are available on the website and meeting summary CD:

- a. Wendy Easton (CWS) and Vi Lambie (MNO) – *Influence of Continental Climate Patterns on Western Boreal Songbird Migration*
- b. Ben Schonewille and Ted Murphy-Kelly, SYBO – *Yukon Rusty Blackbird Banding Project*
- c. Nicole Linfoot, Richard Krikun and Patti Campsall, LSLBO – *Determining the Migratory Timing of Neotropical Songbirds at Lesser Slave Lake Bird Observatory using Stable Isotopes*
- d. Lisa Priestley, Chuck Priestley, Doug Collister, Dan Zazelenchuk, and Matt Hanneman – *Re-encounters of Northern Saw-whet Owls from Banding Stations in Alberta and Saskatchewan*

9. TOOLS, TIPS AND OPPORTUNITIES

a. When To Help: Volunteer Scheduling Solution

When to Help (<http://whentohelp.com/>) is an online volunteer scheduling software package that is available free to non-profits. Ann Nightingale reported that the volunteers and volunteer coordinator at Rocky Point Bird Observatory love this tool. Good for stations with large numbers of volunteers to schedule.

b. Other Technology Tips

Audrey Heagy mentioned two other technology tips: 1) *TechSoup Canada* (www.techsoupcanada.ca) is an online product donation service that connects nonprofits with low-cost computer software (including Microsoft products). 2) *Canada Helps* (www.canadahelps.org) is an online charity donation service for registered charities that makes it easy and inexpensive set up a Donate Now button on your website.

c. eBird Canada

Dick Cannings gave a presentation highlighting various useful tools for exploring bird data available on *eBird Canada* (www.ebird.ca) including seasonal bar charts, arrival/departure dates, etc.

d. Pelee Island Bird Observatory video

Graeme Gibson showed a short video produced by the Pelee Island Bird Observatory that they use for school groups and promotion. Video was more expensive to produce than initially anticipated but is proving useful.

10. GUEST PRESENTATIONS

Copies of the following guest presentations are available on the website and meeting summary CD:

- David Toews and Darren Irwin, University of British Columbia – *Seasonal Migration and Genetic Differentiation: Studies of Avian Contact Zones in Western Canada*.
- Ken A. Otter and Naira Johnston, University of Northern BC – *Assessing the Impact of Wind Development on Golden Eagle Migration in the Northern Rockies*.

11. NEXT CMMN NATIONAL MEETING

2 propositions:

- Watrous, Saskatchewan hosted by Last Mountain Bird Observatory; mid-October only
- Bird Studies Canada, Port Rowan/Long Point, ON, paired with OBBA meeting in February 2013 or 2014 (or have meeting at BSC or some other central location outside of the migration monitoring operation window for all stations)

Other suggestions:

- regional meetings could occur every year, with national meetings every 2 years
- explore having an annual webinar or Skype meeting to allow communication without the cost of a face-to-face meeting

ACTION ARISING:

- Steering Committee to explore options and decide on location and date for the next CMMN National Meeting

Appendix 1: CMMN 2011 Meeting Participants (* meeting organizing committee)

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Appendix 2: Meeting Agenda

8th CMMN-RCSM National Meeting / 8^e Rencontre nationale du RCSM-CMMN

13-16 October 2011, Naramata Centre, Naramata, BC

Hosted by Vaseux Lake Bird Observatory/Okanagan Similkameen Conservation Alliance

Thursday October 13th

Welcome, Orientation and Introductions (Dick Cannings)

Vaseux Lake Bird Observatory Station Report (Dick Cannings)

Guest Presentation: Seasonal Migration and Genetic Differentiation: Studies of Avian Contact Zones in Western Canada (David Toews* and Darren Irwin, University of British Columbia)

Friday October 14th

Tour of Vaseux Lake Bird Observatory (Doug Brown and Dick Cannings)

Station Reports

- Mackenzie Nature Observatory, BC (Vi Lambie)
- Rocky Point Bird Observatory, BC (Ann Nightingale)
- Tatlayoko Lake Bird Observatory, BC (Andrew Harcombe)
- Albert Creek Bird Observatory, YT (Ted Murphy-Kelly)
- Teslin Lake Bird Observatory, YT (Ben Schonewille)
- Beaverhill Bird Observatory, AB (Lisa Priestley)
- Inglewood Bird Sanctuary, AB (Doug Collister)
- Cypress Hills Interprovincial Park Pilot Project (Yousif Attia)
- Lesser Slave Lake Bird Observatory, AB (Patti Campsall)
- Last Mountain Bird Observatory, SK (Alan Smith)
- Delta Marsh Bird Observatory, MB (prepared by Paula Grief)
- Bruce Peninsula Bird Observatory, ON (Ted Cheskey)
- Haldimand Bird Observatory, ON (prepared by Rick Ludkin and Jim Smith)
- Innis Point Bird Observatory, ON (prepared by Celia Bodnar)
- Long Point Bird Observatory, ON (Stu Mackenzie)
- Pelee Island Bird Observatory, ON (Graeme Gibson)
- Prince Edward Point Bird Observatory, ON (David Okines)
- Thunder Cape Bird Observatory, ON (John Woodcock)
- Tommy Thompson Park Bird Research Station, ON (prepared by Brett Tyron)
- McGill Bird Observatory, QC (Simon Duval)
- Observatoire d'oiseaux de Tadoussac, QC (Bruno Drolet)
- Atlantic Bird Observatory, NS (prepared by Phil Taylor)
- Brier Island Bird Migration Research Station NS (Lance Laviolette)

Steering Committee Report (Lance Laviolette & Bruno Drolet*)

Bird Studies Canada Update

- CMMN Trend Analysis (Tara Crewe)
- Migration Monitoring Population Trend Reliability Issues (Jon McCracken)

Environment Canada Update

- *Piranga*: a bird-bander's aid to identifying, ageing and sexing North American birds (Marie-Anne Hudson)
- Bird Banding Office Update (prepared by Lesley Howes)
- Update on Environment Canada's Avian Monitoring Review and the CMMN/RCSM (Bruno Drolet)

Movie Night: Penticton premiere of **The Big Year** movie

Saturday October 15th

2009 National Meeting Action Items Follow Up

- International Projects by the CMMN family (Ted Cheskey)
- Stopover Site Fidelity of Transient Fall Migrants (Doug Collister)
- Standardized Counting for Migration Monitoring (Erica Dunn and David Hussell; no presentation)
- Catchment Areas of CMMN stations: a stable-isotope approach (prepared by Steve van Wilgenburg)

Workshop on CMMN-RCSM Development

Technical Reports on Station Research Projects

- Influence of Continental Climate Patterns on Western Boreal Songbird Migration (Wendy Easton* and Vi Lambie)
- Yukon Rusty Blackbird Banding Project (Ben Schonewille* and Ted Murphy-Kelly)
- Determining the Migratory Timing of Neotropical Songbirds at Lesser Slave Lake Bird Observatory using Stable Isotopes (Nicole Linfoot*, Richard Krikun and Patti Campsall)
- Re-encounters of Northern Saw-whet Owls from Banding Stations in Alberta and Saskatchewan (Lisa Priestley*, Chuck Priestley, Doug Collister, Dan Zazelenchuk, and Matt Hanneman)

Tools, Tips and Opportunities

- When to Help: volunteering scheduling solution (Ann Nightingale)
- More Tech Tips: TechSoup and Canada Helps (Audrey Heagy)
- Ebird Canada (Dick Cannings)
- Pelee Island Bird Observatory video (Graeme Gibson)

Meeting Summary and Outcomes:

- Next CMMN National Meeting
- Meeting Wrap Up

Guest Presentation: *Assessing the Impact of Wind Development on Golden Eagle Migration in the Northern Rockies* (Ken A. Otter and Naira Johnston, University of Northern BC)

Sunday October 16

Okanagan Birding Field Trip (led by Dick Cannings)