STOPOVER SITE FIDELITY OF TRANSIENT FALL MIGRANTS

Return of a transient migrant to a site during successive migrations appears to be a rare phenomenon.

Winker, K. and D.W. Warner. 1991. Unprecedented stopover site fidelity in a Tennessee Warbler. Wilson Bulletin 103:412-514.

Embrace arbitrary definition of "good transients" as individuals occurring more than 160-km (100-mi) from regular breeding or wintering range.

21 records of 10 species in literature from 1969-1991.

Winker and Warner (1991) reported on a TEWA that returned during three successive migrations.

IBS has experienced a remarkable level of stopover site fidelity.

IBS is at least 30-km from the nearest regular breeding range for all species involved.

IBS Migrant Recaptures interval between encounters

- 1 year (n=7, SWTH=4, TEWA, OCWA, YRWA)
- 2 years (n=4, SWTH=3, TEWA)
- 3 years (n=2, SWTH, SWTH*)

Overall rate 0.05% (n=25,484)

CANADIAN MIGRATION MONITORING NETWORK

WPBO Migrant Recaptures interval between encounters

- 1 year (n=17, MAWA, MYWA=5 PUFI=3, SSHA=2, SWTH=2, TEWA=3, WIWA)
- 2 years (n=6, SWTH=2, TEWA=3, MYWA)
- 3 years (n=2, SWTH*, TEWA*)

WPBO Migrant Recaptures interval between encounters

- 4 years (n=1, SSHA*)
- 6 years (n=1, SWTH)
- 7 years (n=1, SWTH*)

Overall rate 0.008% (n=350,000)

CANADIAN MIGRATION MONITORING NETWORK

MBO Migrant Recaptures interval between encounters

- 1 year (n=5, CSWA=2, TEWA, NAWA, SCJU)
- 2 years (n=2, NAWA, MYWA)
- 3 years (n=1, NAWA*)

Overall rate 0.03% (n=24,903)

CANADIAN MIGRATION MONITORING NETWORK

DMBO Migrant Recaptures interval between encounters

- 1 year (n=3, OVEN, PUFI, WTSP*)
- 2 years (n=2, OVEN, NOWA)
- 3 years (n=1, PUFI)

Overall rate 0.006% (n=89,443)

LPBO Migrant Recaptures interval between encounters

- 1 year (n=5, AMRE, MYWA, RBGR, VEER, SAND)
- 2 years (n=1, AMRE)
- 3 years (n=1, VEER)

Overall rate 0.001% (n=550,000)

CANADIAN MIGRATION MONITORING NETWORK

No Migrant Recaptures

TCBO (n=151,404)

BBO (n= 26,441)

LMLBO (n= 56,822)

CANADIAN MIGRATION MONITORING NETWORK

WHY DOES STOPOVER FIDELITY OCCUR?

- specific sites may be rich in resources needed to fuel migration

- familiarity with a site could enhance survival both in terms of evading predators and ensuring available resources

CANADIAN MIGRATION MONITORING NETWORK

SUMMARY

IBS	0.050%
MBO	0.030%
WPBO	0.008%
DMBO	0.006%
LPBO	0.001%
TCBO	0.000%
LMLBO	0.000%
BBO	0.000%

CANADIAN MIGRATION MONITORING NETWORK

WHY IS STOPOVER SITE FIDELITY RARE?

- year-to-year mortality
- duration of stopover
- trapping effort

CANADIAN MIGRATION MONITORING NETWORK

WHY IBS?

- high quality foraging and security area for stopover and prebasic moult (confirmed by Dunn's analysis of weight gain data)
- migrant stopovers originating not too far away?

CANADIAN MIGRATION MONITORING NETWORK

WHY IBS?

- IBS is located along a major river within parkland/grassland landscape perhaps creating a natural funnel

- above effect perhaps enhanced by IBS being embedded in an urban matrix

CANADIAN MIGRATION MONITORING NETWORK