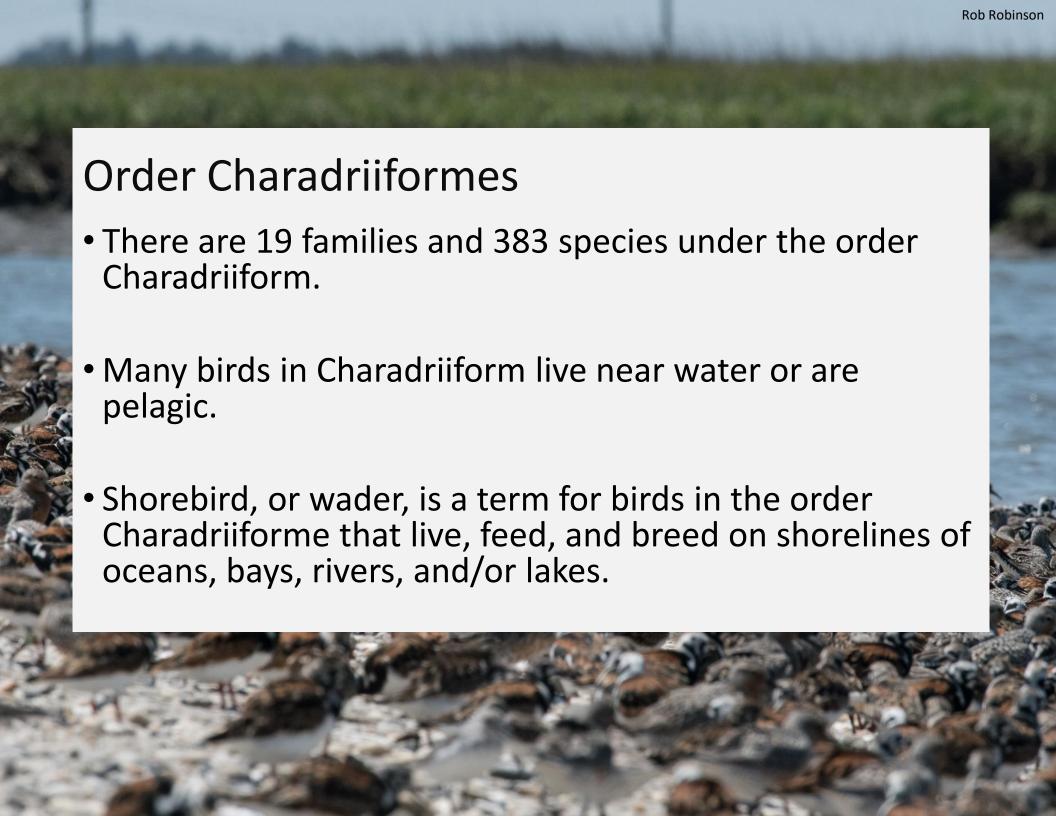
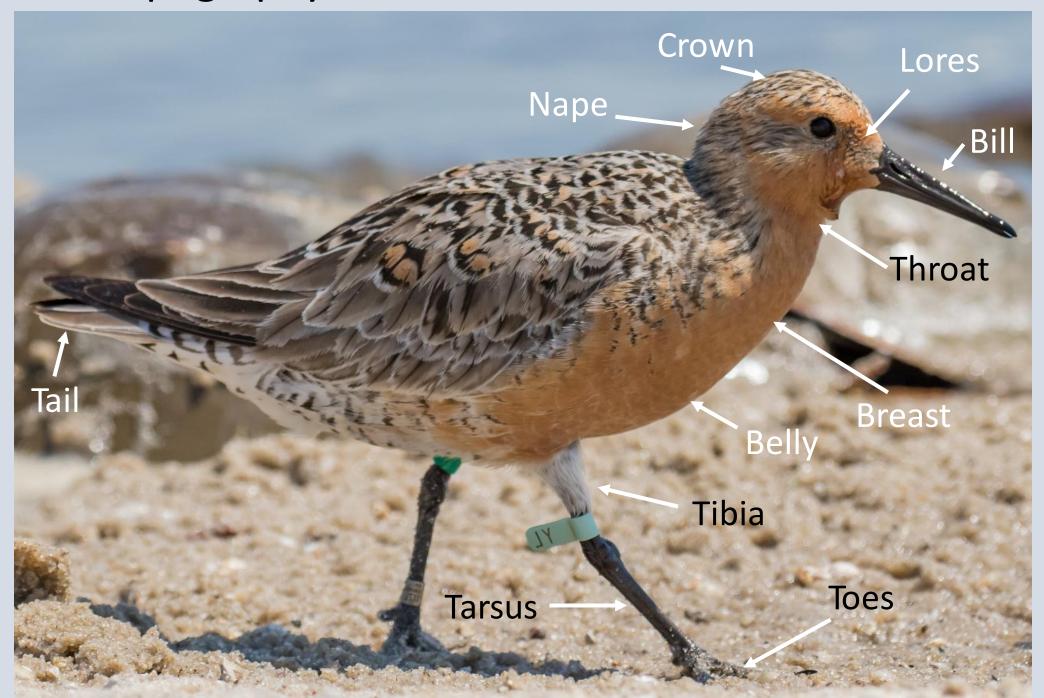
Introduction to Delaware Bay Shorebirds





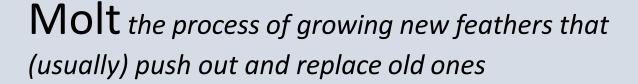
Bird Topography



Plumage a bird's feathers collectively

Juvenal Plumage—July to November Basic Plumage (winter)—September to April Alternate Plumage (summer)—April to August

Photo examples: (1) Red Knot juvenal plumage, (2) red knot basic plumage, (3) red knot alternate plumage

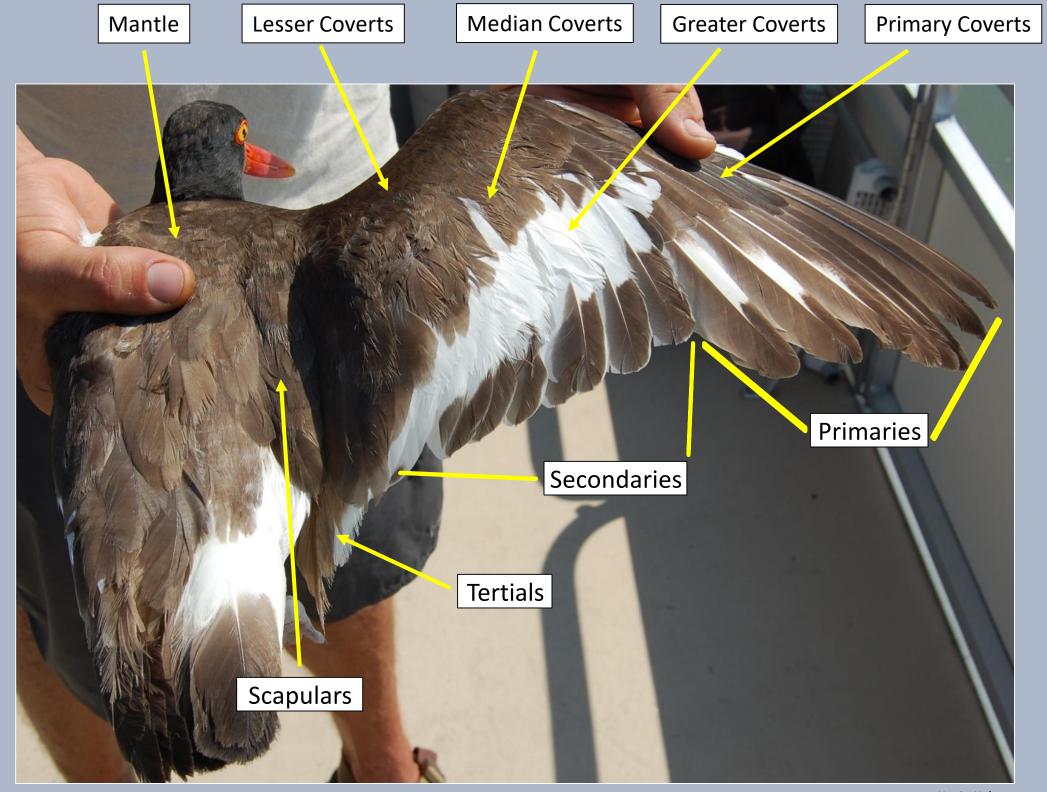


- Shorebirds molt twice each year
- Pre-basic molt occurs from late summer to early fall
- Pre-alternate molt occurs from late winter to early spring
- Incomplete molt only body and head feathers replaced
- Complete molt all feathers are replaced .



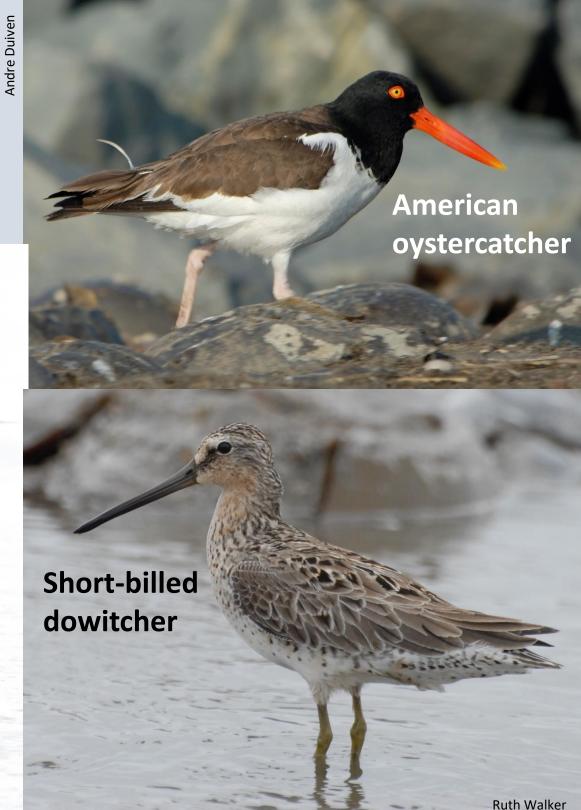




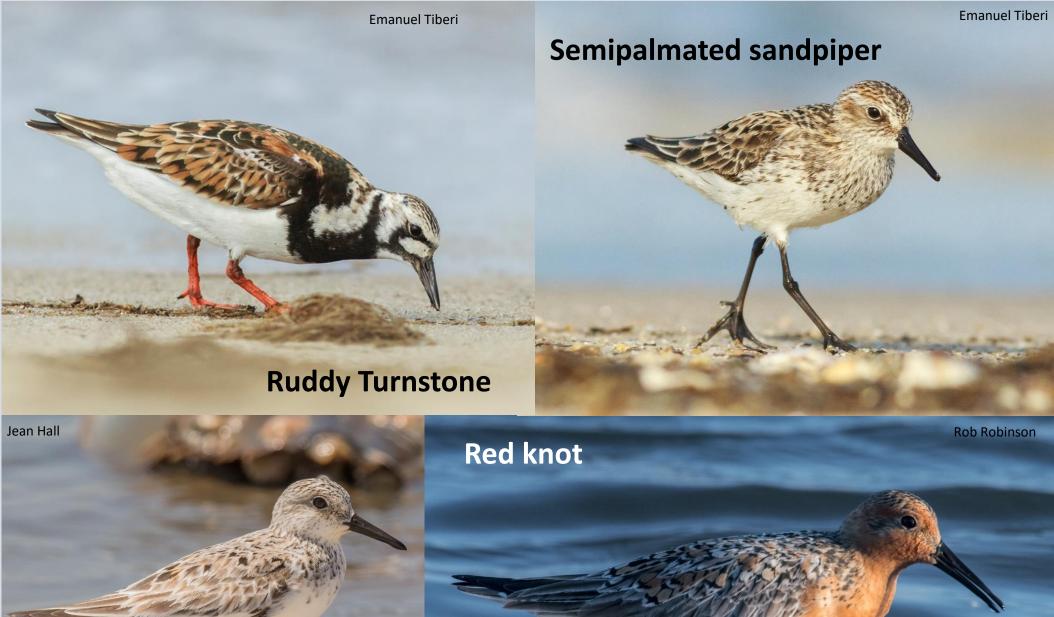


Delaware Shorebirds

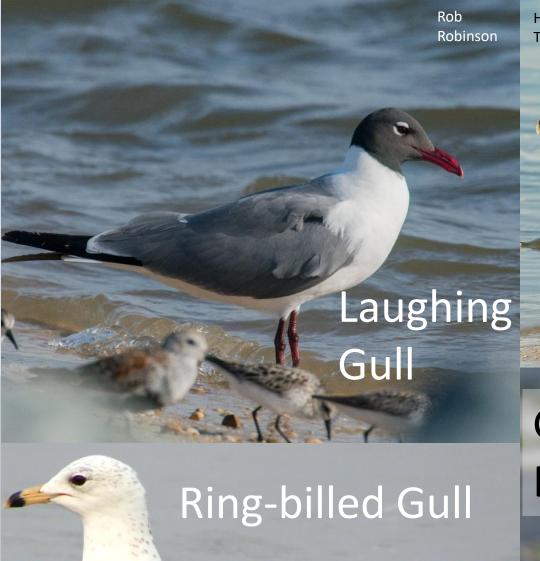








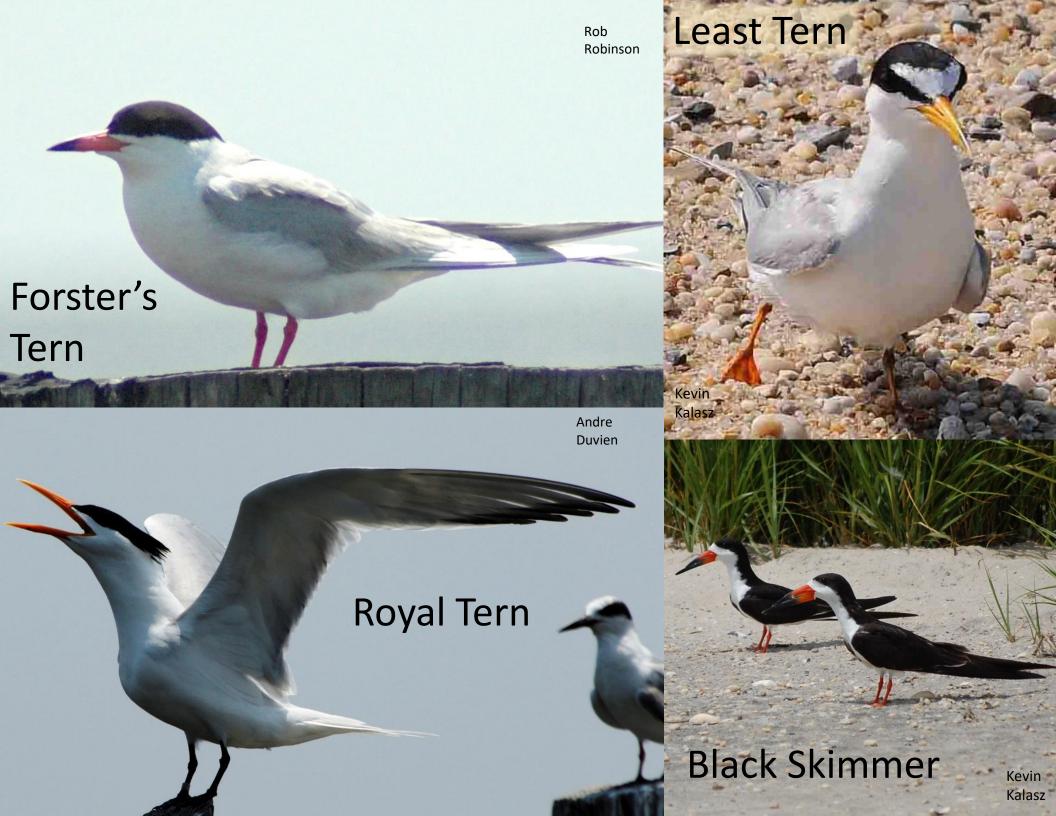








Chris Bennet



While not shorebirds, these raptors may be sighted during surveys and should be noted as a disturbance.

Merlin

Slightly smaller than a crow, merlins have pointed wings, a broad chest, and are generally dark and streaky.



David Brown- McCaulay Library

Peregrines are crow sized raptors with blue-grey backs, long pointed wings, and a long tail. They are barred underneath and have dark heads with thick sideburns.