

## Decline in waterbird populations around Stanley Park (1980's to present)

By Michael Price

Starting in the early 1990s there seemed to be a decline in the outer Burrard Inlet seabirds of both passage and winter-resident populations. I was on the Burrard Inlet Environmental Action Program's quarterly bird surveys in Burrard Inlet for several years in the first half of the 1990s. My survey area was the outer harbour from the False Creek entrance and First Narrows to Point Grey and Point Atkinson, and I watched the by-then five or six marbled murrelets *Brachyramphus marmoratus* decline to none over five years. Compare that to a January observation I made in the early 1980s under ideal optical conditions of 55 *pairs* of murrelets in the same area. A possible cause of the rapid decline was the disappearance of old-growth forests in the Greater Vancouver watershed in which the murrelets were known to nest. So I (and others) have, mostly independently, noticed the change in status of many species from common and abundant to uncommon and rare. Omitting uncommon and rare annually-occurring species such as the yellow-billed loon *Gavia adamsii* and Franklin's gull *Larus pipixcan*, these are the species which, until the 1990s decline, were commonplace both in the Stanley Park littoral and the outer Burrard Inlet as passage migrants and/or winter residents.

I created a list of the species which had changed most dramatically, with the idea that I might be able to see if there were any common factors. The loons, grebes, some of the waterfowl, the alcids, the small gulls and terns and the jaegers which kleptoparasitise on them are all dependent on small fish, so a change in the Burrard Inlet and English Bay fish populations would affect all these species. There are likely a number of other causes; logging of forest breeding habitat, pollution caused by the freighters moored in the outer harbor, change in ocean water temperatures, increased human use of the outer inlet--i.e. kayakers and power boats etc. The only two species which have seen any kind of increase are the pelagic cormorant *Phalacrocorax pelagicus* and, to a lesser extent, double-crested cormorant *P. auritus* which now are often the only non-larids to be seen offshore from the Park in any numbers on any given day whatever the season. Many days now, they are the *only* non-larids to be seen; otherwise the waters are empty.

I can't account for the change in shorebird presence along the west side of Stanley Park. Migrant and winter resident sanderling and dunlin used to be very common and regular on Second and Third Beaches and Ferguson Point, and black turnstone in the rocky areas in between. Western, semi and least sandpipers used to be common and regular on Ferguson Point during the latter part of July and early August when large numbers of juvenile birds are passing through our region. The presence of off-leash dogs likely accounts for some of the evictions but doesn't explain the disappearance of the wintering small *Calidris* sandpipers and the turnstones.

**Species**

Common Loon (*Gavia immer*)  
 Pacific Loon (*G. pacifica*)  
 Red-throated Loon (*G. stellata*)  
 Horned Grebe (*Podiceps auritus*)  
 Red-necked Grebe (*P. grisegena*)  
 Western Grebe (*Aechmophorus occidentalis*)  
 Brandt's Cormorant (*Phalacrocorax penicillatus*)  
 Ruddy Duck (*Oxyura jamaicensis*)  
 Greater Scaup (*Aythya marila*)  
 Lesser Scaup (*A. affinis*)  
 Black Scoter (*Melanitta nigra*)  
 White-winged Scoter (*M. fusca*)  
 Surf Scoter (*M. perspicillata*)  
 Long-tailed Duck (*Clangula hyemalis*)  
 Barrow's Goldeneye (*Bucephala islandica*)  
 Bufflehead (*B. albeola*)  
 Red-breasted Merganser (*Mergus serrator*)  
 Black Turnstone (*Arenaria melanocephala*)  
 Dunlin (*Calidris alpina*)  
 Sanderling (*C. alba*)  
 Semipalmated Sandpiper (*C. pusilla*)  
 Western Sandpiper (*C. mauri*)  
 Least Sandpiper (*C. minutilla*)  
 Parasitic Jaeger (*Stercorarius parasiticus*)  
 Bonaparte's Gull (*Chroicocephalus philadelphia*)  
 Common Tern (*Sterna hirundo*)  
 Caspian Tern (*Hydroprogne caspia*)  
 Common Murre (*Uria aalge*)  
 Pigeon Guillemot (*Cepphus columba*)  
 Marbled Murrelet (*Brachyrhamphus marmoratus*)  
 Rhinoceros Auklet (*Cerorhinca monocerata*)

**As of the late 1980's**

Fairly common migrant and winter resident  
 Uncommon migrant and winter resident  
 Common migrant and winter resident  
 Common migrant and winter resident  
 Uncommon migrant and winter resident  
 Very abundant migrant and winter resident  
 Common offshore and winter resident  
 Uncommon migrant and winter resident  
 Common migrant and winter resident  
 Very common migrant and winter resident  
 Locally common migrant and winter resident  
 Fairly common migrant and winter resident  
 Very abundant migrant and winter resident  
 Fairly common migrant, uncommon winter resident  
 Abundant migrant and winter resident  
 Common migrant and winter resident  
 Very common migrant and winter resident  
 Common winter resident  
 Fairly common winter resident  
 Very common migrant and winter resident  
 Uncommon Juvenile migrant  
 Common Juvenile migrant  
 Common Juvenile migrant  
 Uncommon autumn migrant  
 Very common migrant  
 Very common to abundant migrant  
 Very common migrant, summer  
 Uncommon winter  
 Fairly common summer  
 Common winter, fairly common summer  
 Rare summer, autumn

**2009**

Uncommon to rare  
 Rare  
 Rare  
 Uncommon  
 Rare  
 Uncommon to rare  
 Rare  
 Rare  
 Uncommon  
 Uncommon  
 Rare  
 Rare  
 Locally common to uncommon  
 Rare migrant, winter  
 Locally common  
 fairly common migrant, uncommon winter  
 fairly common migrant, uncommon winter  
 Uncommon to rare winter  
 Uncommon to rare  
 Uncommon to rare, winter  
 No recent sightings  
 No recent sightings  
 No recent sightings  
 No recent sightings  
 Uncommon to rare  
 Rare  
 Uncommon  
 No recent sightings  
 Uncommon summer  
 Rare  
 No recent sightings