

Appendix J
Bird Species Identified on the Donkin Peninsula

TABLE A-1: List of the Bird Species Recorded on the Donkin Peninsula

This list is based on the most recent American Ornithologists' Union (AOU) checklist:
<http://www.aou.org/checklist/index.php3>

(Note: Seasonal status and other aspects of these bird records are provided in Tables A-2, A-3, and A-4)

ANSERIFORMES

Chen caerulescens Snow Goose
Branta bernicla Brant
Branta canadensis Canada Goose
Aix sponsa Wood Duck
Anas americana American Wigeon
Anas rubripes American Black Duck
Anas platyrhynchos Mallard
Anas discors Blue-winged Teal
Anas acuta Northern Pintail
Anas crecca Green-winged Teal
Aythya collaris Ring-necked Duck
Aythya marila Greater Scaup
Aythya affinis Lesser Scaup
Somateria mollissima Common Eider
Histrionicus histrionicus Harlequin Duck
Melanitta perspicillata Surf Scoter
Melanitta fusca White-winged Scoter
Melanitta nigra Black Scoter
Clangula hyemalis Long-tailed Duck
Bucephala albeola Bufflehead
Bucephala clangula Common Goldeneye
Lophodytes cucullatus Hooded Merganser
Mergus merganser Common Merganser
Mergus serrator Red-breasted Merganser
Oxyura jamaicensis Ruddy Duck

GALLIFORMES

Phasianus colchicus Ring-necked Pheasant
Bonasa umbellus Ruffed Grouse
Falcapennis canadensis Spruce Grouse

GAVIIFORMES

Gavia stellata Red-throated Loon
Gavia immer Common Loon

PODICIPEDIFORMES

Podilymbus podiceps Pied-billed Grebe
Podiceps auritus Horned Grebe
Podiceps grisegena Red-necked Grebe

PROCELLARIIFORMES

Fulmarus glacialis Northern Fulmar

Calonectris diomedea Cory's Shearwater (N)
Puffinus gravis Greater Shearwater (N)
Puffinus griseus Sooty Shearwater (N)
Puffinus puffinus Manx Shearwater
Oceanites oceanicus Wilson's Storm-Petrel (N)
Oceanodroma leucorhoa Leach's Storm-Petrel

PELECANIFORMES

Morus bassanus Northern Gannet
Phalacrocorax auritus Double-crested Cormorant
Phalacrocorax carbo Great Cormorant

CICONIIFORMES

Botaurus lentiginosus American Bittern
Ardea herodias Great Blue Heron
Ardea alba Great Egret
Egretta gularis Western Reef-Heron
Egretta caerulea Little Blue Heron
Egretta tricolor Tricolored Heron
Butorides virescens Green Heron
Plegadis falcinellus Glossy Ibis
Coragyps atratus Black Vulture
Cathartes aura Turkey Vulture

FALCONIFORMES

Pandion haliaetus Osprey
Haliaeetus leucocephalus Bald Eagle
Circus cyaneus Northern Harrier
Accipiter striatus Sharp-shinned Hawk
Accipiter gentilis Northern Goshawk
Buteo platypterus Broad-winged Hawk
Buteo swainsoni Swainson's Hawk
Buteo jamaicensis Red-tailed Hawk
Buteo lagopus Rough-legged Hawk
Falco sparverius American Kestrel
Falco columbarius Merlin
Falco peregrinus Peregrine Falcon

GRUIFORMES

Rallus longirostris Clapper Rail
Rallus limicola Virginia Rail
Porzana carolina Sora
Gallinula chloropus Common Moorhen
Fulica americana American Coot
Grus canadensis Sandhill Crane

CHARADRIIFORMES

Pluvialis squatarola Black-bellied Plover
Pluvialis apricaria European Golden-Plover (A)
Pluvialis dominica American Golden-Plover

Charadrius semipalmatus Semipalmated Plover
Charadrius vociferus Killdeer
Tringa melanoleuca Greater Yellowlegs
Tringa flavipes Lesser Yellowlegs
Tringa solitaria Solitary Sandpiper
Catoptrophorus semipalmatus Willet
Actitis macularia Spotted Sandpiper
Bartramia longicauda Upland Sandpiper
Numenius phaeopus Whimbrel
Limosa haemastica Hudsonian Godwit
Limosa lapponica Bar-tailed Godwit
Arenaria interpres Ruddy Turnstone
Calidris canutus Red Knot
Calidris alba Sanderling
Calidris pusilla Semipalmated Sandpiper
Calidris mauri Western Sandpiper
Calidris minutilla Least Sandpiper
Calidris fuscicollis White-rumped Sandpiper
Calidris bairdii Baird's Sandpiper
Calidris melanotos Pectoral Sandpiper
Calidris maritima Purple Sandpiper
Calidris alpina Dunlin
Tryngites subruficollis Buff-breasted Sandpiper
Philomachus pugnax Ruff
Limnodromus griseus Short-billed Dowitcher
Gallinago delicata Wilson's Snipe
Scolopax minor American Woodcock
Phalaropus lobatus Red-necked Phalarope
Phalaropus fulicaria Red Phalarope
Stercorarius pomarinus Pomarine Jaeger
Stercorarius parasiticus Parasitic Jaeger
Larus atricilla Laughing Gull
Larus pipixcan Franklin's Gull
Larus ridibundus Black-headed Gull
Larus philadelphia Bonaparte's Gull
Larus delawarensis Ring-billed Gull
Larus argentatus Herring Gull
Larus glaucoides Iceland Gull
Larus fuscus Lesser Black-backed Gull (N)
Larus hyperboreus Glaucous Gull
Larus marinus Great Black-backed Gull
Rissa tridactyla Black-legged Kittiwake
Sterna nilotica Gull-billed Tern
Sterna caspia Caspian Tern
Sterna hirundo Common Tern
Sterna paradisaea Arctic Tern
Alle alle Dovekie
Uria aalge Common Murre
Uria lomvia Thick-billed Murre
Alca torda Razorbill

Cepphus grylle Black Guillemot
Fratercula arctica Atlantic Puffin

COLUMBIFORMES

Columba livia Rock Pigeon (I)
Zenaida macroura Mourning Dove

CUCULIFORMES

Coccyzus erythrophthalmus Black-billed Cuckoo
Coccyzus americanus Yellow-billed Cuckoo

STRIGIFORMES

Bubo virginianus Great Horned Owl
Bubo scandiaca Snowy Owl
Strix varia Barred Owl
Asio otus Long-eared Owl
Asio flammeus Short-eared Owl
Aegolius acadicus Northern Saw-whet Owl

CAPRIMULGIFORMES

Chordeiles minor Common Nighthawk

APODIFORMES

Chaetura pelagica Chimney Swift
Archilochus colubris Ruby-throated Hummingbird

CORACIIFORMES

Ceryle alcyon Belted Kingfisher

PICIFORMES

Picoides pubescens Downy Woodpecker
Picoides villosus Hairy Woodpecker
Picoides arcticus Black-backed Woodpecker
Colaptes auratus Northern Flicker

PASSERIFORMES

Contopus cooperi Olive-sided Flycatcher
Contopus virens Eastern Wood-Pewee
Empidonax flaviventris Yellow-bellied Flycatcher
Empidonax alnorum Alder Flycatcher
Empidonax minimus Least Flycatcher
Sayornis phoebe Eastern Phoebe
Sayornis saya Say's Phoebe
Myiarchus crinitus Great Crested Flycatcher
Tyrannus verticalis Western Kingbird
Tyrannus tyrannus Eastern Kingbird
Lanius excubitor Northern Shrike
Vireo griseus White-eyed Vireo
Vireo flavifrons Yellow-throated Vireo
Vireo solitarius Blue-headed Vireo

Vireo gilvus Warbling Vireo
Vireo philadelphicus Philadelphia Vireo
Vireo olivaceus Red-eyed Vireo
Perisoreus canadensis Gray Jay
Cyanocitta cristata Blue Jay
Corvus brachyrhynchos American Crow
Corvus corax Common Raven
Eremophila alpestris Horned Lark
Progne subis Purple Martin
Tachycineta bicolor Tree Swallow
Riparia riparia Bank Swallow
Petrochelidon pyrrhonota Cliff Swallow
Hirundo rustica Barn Swallow
Poecile atricapillus Black-capped Chickadee
Poecile hudsonicus Boreal Chickadee
Sitta canadensis Red-breasted Nuthatch
Certhia americana Brown Creeper
Thryothorus ludovicianus Carolina Wren
Troglodytes troglodytes Winter Wren
Regulus satrapa Golden-crowned Kinglet
Regulus calendula Ruby-crowned Kinglet
Poliophtila caerulea Blue-gray Gnatcatcher
Oenanthe oenanthe Northern Wheatear
Sialia sialis Eastern Bluebird
Catharus fuscescens Veery
Catharus minimus Gray-cheeked Thrush
Catharus bicknelli Bicknell's Thrush
Catharus ustulatus Swainson's Thrush
Catharus guttatus Hermit Thrush
Turdus migratorius American Robin
Dumetella carolinensis Gray Catbird
Mimus polyglottos Northern Mockingbird
Toxostoma rufum Brown Thrasher
Sturnus vulgaris European Starling
Anthus rubescens American Pipit
Bombycilla garrulus Bohemian Waxwing
Bombycilla cedrorum Cedar Waxwing
Vermivora pinus Blue-winged Warbler
Vermivora chrysoptera Golden-winged Warbler
Vermivora peregrina Tennessee Warbler
Vermivora celata Orange-crowned Warbler
Vermivora ruficapilla Nashville Warbler
Parula americana Northern Parula
Dendroica petechia Yellow Warbler
Dendroica pensylvanica Chestnut-sided Warbler
Dendroica magnolia Magnolia Warbler
Dendroica tigrina Cape May Warbler
Dendroica caerulescens Black-throated Blue Warbler
Dendroica coronata Yellow-rumped Warbler
Dendroica virens Black-throated Green Warbler

Dendroica fusca Blackburnian Warbler
Dendroica dominica Yellow-throated Warbler
Dendroica pinus Pine Warbler
Dendroica discolor Prairie Warbler
Dendroica palmarum Palm Warbler
Dendroica castanea Bay-breasted Warbler
Dendroica striata Blackpoll Warbler
Mniotilta varia Black-and-white Warbler
Setophaga ruticilla American Redstart
Protonotaria citrea Prothonotary Warbler
Helmitheros vermivorus Worm-eating Warbler
Seiurus aurocapillus Ovenbird
Seiurus noveboracensis Northern Waterthrush
Oporornis philadelphia Mourning Warbler
Geothlypis trichas Common Yellowthroat
Wilsonia citrina Hooded Warbler
Wilsonia pusilla Wilson's Warbler
Wilsonia canadensis Canada Warbler
Icteria virens Yellow-breasted Chat
Piranga olivacea Scarlet Tanager
Pipilo erythrophthalmus Eastern Towhee
Spizella arborea American Tree Sparrow
Spizella passerina Chipping Sparrow
Spizella pallida Clay-colored Sparrow
Spizella pusilla Field Sparrow
Pooecetes gramineus Vesper Sparrow
Chondestes grammacus Lark Sparrow
Passerculus sandwichensis Savannah Sparrow
Ammodramus savannarum Grasshopper Sparrow
Ammodramus nelsoni Nelson's Sharp-tailed Sparrow
Passerella iliaca Fox Sparrow
Melospiza melodia Song Sparrow
Melospiza lincolni Lincoln's Sparrow
Melospiza georgiana Swamp Sparrow
Zonotrichia albicollis White-throated Sparrow
Zonotrichia leucophrys White-crowned Sparrow
Junco hyemalis Dark-eyed Junco
Calcarius lapponicus Lapland Longspur
Plectrophenax nivalis Snow Bunting
Pheucticus ludovicianus Rose-breasted Grosbeak
Guiraca caerulea Blue Grosbeak
Passerina cyanea Indigo Bunting
Spiza americana Dickcissel
Dolichonyx oryzivorus Bobolink
Agelaius phoeniceus Red-winged Blackbird
Sturnella magna Eastern Meadowlark
Xanthocephalus xanthocephalus Yellow-headed Blackbird
Euphagus carolinus Rusty Blackbird
Quiscalus quiscula Common Grackle
Molothrus ater Brown-headed Cowbird

Icterus galbula Baltimore Oriole
Pinicola enucleator Pine Grosbeak
Carpodacus purpureus Purple Finch
Loxia curvirostra Red Crossbill
Loxia leucoptera White-winged Crossbill
Carduelis flammea Common Redpoll
Carduelis pinus Pine Siskin
Carduelis tristis American Goldfinch
Coccothraustes vespertinus Evening Grosbeak
Passer domesticus House Sparrow

Table A-2: List of Bird Species Recorded as Migrants on the Donkin Peninsula or Nearby Waters

This list is based on observations and records compiled by C. and A. Murrant. Many of these species also appear on the lists of birds that have bred (Table A-3) or wintered (Table A-4) at the site. Those marked “V” are very rare vagrants, far from their normal breeding or migratory ranges, although some occur most years in the province. Those marked “C” are casual migrants or breeders, i.e., rare, but usually more than one annually in the province. Others may range in status from very common to very rare, but are normal migrants in the region.

Snow Goose (C)	Glossy Ibis (C)
Brant	Turkey Vulture (C)
Canada Goose	Black Vulture (V)
Wood Duck	Osprey
American Wigeon	Bald Eagle
American Black Duck	Northern Harrier
Mallard	Sharp-shinned Hawk
Blue-winged Teal	Northern Goshawk
Northern Pintail	Broad-winged Hawk
Green-winged Teal	Swainson’s Hawk (V)
Ring-necked Duck	Red-tailed Hawk
Greater Scaup	Rough-legged Hawk
Lesser Scaup	American Kestrel
Common Eider	Merlin
Harlequin Duck	Peregrine Falcon
Surf Scoter	Clapper Rail (V)
White-winged Scoter	Sora
Black Scoter	Common Moorhen (C)
Long-tailed Duck	American Coot (C)
Bufflehead	Sandhill Crane (C)
Common Goldeneye	Black-bellied Plover
Hooded Merganser	American Golden-Plover
Common Merganser	Semipalmated Plover
Red-breasted Merganser	Killdeer
Ruddy Duck	Greater Yellowlegs
Ruffed Grouse?	Lesser Yellowlegs
Red-throated Loon	Solitary Sandpiper
Common Loon	Willet
Pied-billed Grebe	Spotted Sandpiper
Horned Grebe	Upland Sandpiper
Red-necked Grebe	Whimbrel
Northern Fulmar	Hudsonian Godwit
Cory’s Shearwater	Ruddy Turnstone
Greater Shearwater	Red Knot
Sooty Shearwater	Sanderling
Manx Shearwater	Semipalmated Sandpiper
Wilson’s Storm-Petrel	Western Sandpiper
Leach’s Storm-Petrel	Least Sandpiper
Northern Gannet	White-rumped Sandpiper
Double-crested Cormorant	Baird’s Sandpiper
Great Cormorant	Pectoral Sandpiper
American Bittern	Purple Sandpiper
Great Blue Heron	Dunlin
Great Egret	Curlew Sandpiper (V)
Western Reef-Heron (V)	Buff-breasted Sandpiper
Little Blue Heron (C)	Ruff (V)
Tricolored Heron (C)	Short-billed Dowitcher
Green Heron (C)	Wilson’s Snipe

American Woodcock
 Red-necked Phalarope
 Red Phalarope
 Pomarine Jaeger
 Parasitic Jaeger
 Laughing Gull (C)
 Franklin's Gull (V)
 Black-headed Gull
 Ring-billed Gull
 Herring Gull
 Iceland Gull
 Lesser Black-backed Gull (C)
 Glaucous Gull
 Great Black-backed Gull
 Black-legged Kittiwake
 Gull-billed Tern (V)
 Caspian Tern
 Common Tern
 Arctic Tern
 Dovekie
 Common Murre
 Thick-billed Murre
 Razorbill
 Atlantic Puffin
 Rock Pigeon
 Mourning Dove
 Black-billed Cuckoo (C)
 Yellow-billed Cuckoo (C)
 Great Horned Owl
 Snowy Owl
 Barred Owl
 Long-eared Owl
 Short-eared Owl
 Northern Saw-whet Owl
 Common Nighthawk
 Chimney Swift
 Ruby-throated Hummingbird
 Belted Kingfisher
 Downy Woodpecker
 Hairy Woodpecker
 Black-backed Woodpecker
 Northern Flicker
 Olive-sided Flycatcher
 Eastern Wood-Pewee
 Yellow-bellied Flycatcher
 Least Flycatcher
 Eastern Phoebe
 Say's Phoebe (V)
 Great Crested Flycatcher (C)
 Western Kingbird (V)
 Eastern Kingbird
 Northern Shrike
 White-eyed Vireo (V)
 Yellow-throated Vireo (V)
 Warbling Vireo (C)
 Philadelphia Vireo (C)
 Red-eyed Vireo
 Gray Jay
 Blue Jay
 American Crow
 Common Raven
 Purple Martin (C)
 Tree Swallow
 Bank Swallow
 Cliff Swallow
 Barn Swallow
 Black-capped Chickadee
 Boreal Chickadee
 Red-breasted Nuthatch
 Brown Creeper
 Carolina Wren (V)
 Winter Wren
 Golden-crowned Kinglet
 Ruby-crowned Kinglet
 Blue-gray Gnatcatcher (C)
 Northern Wheatear (C)
 Eastern Bluebird
 Veery
 Gray-cheeked Thrush
 Bicknell's Thrush
 Swainson's Thrush
 Hermit Thrush
 Gray Catbird
 Northern Mockingbird
 Brown Thrasher (C)
 European Starling
 American Pipit
 Bohemian Waxwing
 Cedar Waxwing
 Blue-winged Warbler (C)
 Golden-winged Warbler (V)
 Tennessee Warbler
 Orange-crowned Warbler
 Nashville Warbler
 Northern Parula
 Yellow Warbler
 Chestnut-sided Warbler
 Magnolia Warbler
 Cape May Warbler
 Black-throated Blue Warbler
 Yellow-rumped Warbler
 Black-throated Green Warbler
 Blackburnian Warbler
 Yellow-throated Warbler (V)
 Pine Warbler (C)
 Prairie Warbler (C)
 Palm Warbler
 Bay-breasted Warbler

Blackpoll Warbler
Black-and-white Warbler
American Redstart
Prothonotary Warbler (C)
Worm-eating Warbler (V)
Ovenbird
Northern Waterthrush
Mourning Warbler
Common Yellowthroat
Hooded Warbler
Wilson's Warbler
Canada Warbler
Yellow-breasted Chat (C)
Scarlet Tanager
Eastern Towhee (C)
American Tree Sparrow
Chipping Sparrow
Clay-colored Sparrow (C)
Field Sparrow (C)
Vesper Sparrow
Lark Sparrow (C)
Savannah Sparrow
Grasshopper Sparrow (V)
Nelson's Sharp-tailed Sparrow
Fox Sparrow
Song Sparrow
Lincoln's Sparrow

Swamp Sparrow
White-throated Sparrow
White-crowned Sparrow
Dark-eyed Junco
Lapland Longspur
Snow Bunting
Rose-breasted Grosbeak
Blue Grosbeak (C)
Indigo Bunting (C)
Dickcissel (C)
Bobolink
Red-winged Blackbird
Eastern Meadowlark
Yellow-headed Blackbird (V)
Rusty Blackbird
Common Grackle
Brown-headed Cowbird
Baltimore Oriole
Pine Grosbeak
Purple Finch
Red Crossbill
White-winged Crossbill
Common Redpoll
Pine Siskin
American Goldfinch
Evening Grosbeak
House Sparrow

Table A-3: List of Species of Birds that have been Confirmed or are Believed (i.e., present during summer) to have Bred on the Donkin Peninsula

The following list is based on observations and records compiled by C. and A. Murrant and on lists in McQuorquodale (2002). Note: many of these species also appear on the lists of migrants (Table A-2) and wintering birds (Table A-4).

Wood Duck	Gray Jay
American Black Duck	Blue Jay
Mallard	American Crow
Blue-winged Teal	Common Raven
Green-winged Teal	Horned Lark
Ring-necked Duck	Purple Martin?
Ruffed Grouse?	Tree Swallow
Pied-billed Grebe	Bank Swallow
Double-crested Cormorant	Barn Swallow
Great Cormorant	Black-capped Chickadee
American Bittern	Boreal Chickadee
Great Blue Heron	Red-breasted Nuthatch
Osprey?	Brown Creeper
Bald Eagle?	Winter Wren
Northern Harrier	Golden-crowned Kinglet
Sharp-shinned Hawk	Ruby-crowned Kinglet
Northern Goshawk	Swainson's Thrush
Broad-winged Hawk	Hermit Thrush
Merlin	American Robin
Virginia Rail	Gray Catbird
Sora	European Starling
Common Moorhen	Cedar Waxwing
Killdeer	Tennessee Warbler
Spotted Sandpiper	Nashville Warbler
Wilson's Snipe	Northern Parula
American Woodcock	Yellow Warbler
Herring Gull	Chestnut-sided Warbler
Black-legged Kittiwake	Magnolia Warbler
Razorbill?	Cape May Warbler
Black Guillemot	Yellow-rumped Warbler
Rock Pigeon	Black-throated Green Warbler
Mourning Dove	Blackburnian Warbler
Great Horned Owl	Palm Warbler
Northern Saw-whet Owl	Bay-breasted Warbler
Ruby-throated Hummingbird	Blackpoll Warbler
Belted Kingfisher	Black-and-white Warbler
Downy Woodpecker	American Redstart
Hairy Woodpecker	Ovenbird
Black-backed Woodpecker	Northern Waterthrush
Northern Flicker	Mourning Warbler
Olive-sided Flycatcher	Common Yellowthroat
Yellow-bellied Flycatcher	Wilson's Warbler
Alder Flycatcher	Canada Warbler
Eastern Kingbird	Savannah Sparrow
Red-eyed Vireo?	Fox Sparrow
Blue-headed Vireo	Song Sparrow

Lincoln's Sparrow
Swamp Sparrow
White-throated Sparrow
Dark-eyed Junco
Bobolink
Red-winged Blackbird
Rusty Blackbird
Common Grackle
Pine Grosbeak
Purple Finch

White-winged Crossbill
Pine Siskin
American Goldfinch
Evening Grosbeak

Table A-4: List of Birds Recorded during Winter on the Donkin Peninsula

The following list is based on the observations and records compiled by C. and A. Murrant.

Common Loon	Snowy Owl
Red-throated Loon	Barred Owl
Horned Grebe	Short-eared Owl
Red-necked Grebe	Northern Saw-whet Owl
Great Cormorant	Downy Woodpecker
Double-crested Cormorant	Hairy Woodpecker
Canada Goose	Black-backed Woodpecker
American Black Duck	Northern Flicker
Mallard	Horned Lark
Northern Pintail	Gray Jay
American Wigeon	Blue Jay
Greater Scaup	American Crow
Lesser Scaup	Common Raven
Common Eider	Black-capped Chickadee
Harlequin Duck	Boreal Chickadee
Long-tailed Duck	Red-breasted Nuthatch
Black Scoter	Brown Creeper
White-winged Scoter	Golden-crowned Kinglet
Surf Scoter	American Robin
Common Goldeneye	Bohemian Waxwing
Common Merganser	Cedar Waxwing
Red-breasted Merganser	Northern Shrike
Turkey Vulture	European Starling
Bald Eagle	Yellow-rumped Warbler
Sharp-shinned Hawk	American Tree Sparrow
Northern Goshawk	Savannah Sparrow
Red-tailed Hawk	Song Sparrow
Rough-legged Hawk	Dark-eyed Junco
American Kestrel	Lapland Longspur
Merlin	Snow Bunting
Spruce Grouse	Pine Grosbeak
Ruffed Grouse	Purple Finch
Purple Sandpiper	Red Crossbill
Wilson's Snipe	White-winged Crossbill
Black-headed Gull	Common Redpoll
Bonaparte's Gull	Pine Siskin
Ring-billed Gull	American Goldfinch
Herring Gull	Evening Grosbeak
Lesser Black-backed Gull	House Sparrow
Glaucous Gull	
Great Black-backed Gull	
Dovekie	
Common Murre	
Thick-billed Murre	
Razorbill	
Black Guillemot	
Atlantic Puffin	
Rock Dove	
Mourning Dove	
Great Horned Owl	

Table A-5: Approximate Numbers of Pairs of Seabirds Nesting on the Cliffs and Talus Slopes of the Donkin Peninsula

This information is based on the observations and records compiled by C. and A. Murrant.

<i>Species</i>	<i>Nesting pairs</i>	<i>Remarks</i>
Great Cormorant	150	Scattered nests east of mapped areas on Fig. 3
Double-crested Cormorant	100	Scattered nests east of mapped areas on Fig. 3
Black-legged Kittiwake	200	
Razorbill	4	
Black Guillemot	35	15 pairs in northern and 20 pairs in southern site