

List of the Orthopteran species of North Carolina

**Acrididae: [93]**

		MH	ML	P	C
<i>Metaleptea brevicornis</i> .....	Clipped-Wing Grasshopper -- G5 [S5].....			FR	
<i>Schistocerca alutacea</i> .....	Leather-colored Bird Locust -- G5 [S4S5].....				FR
<i>Schistocerca americana</i> .....	American Bird Locust -- G5 [S5].....			FR	
<i>Schistocerca damnifica</i> .....	Mischievous Bird Locust -- G5 [S5].....				
<i>Schistocerca lineata</i> .....	Spotted Bird Locust -- [GNR SU].....				OC
<i>Schistocerca obscura</i> .....	Obscure Bird Locust -- G5 [S4S5].....				OC
<i>Schistocerca rubiginosa</i> .....	Rusty Bird Locust -- G3G5 [S3S4].....				OC
<i>Amblytropidia mysteca</i> .....	Brown Winter Grasshopper -- G5 [G5].....			IN	FR
<i>Syrbula admirabilis</i> .....	Handsome Grasshopper -- G5 [S4S5].....			IN	FR
<i>Chloealtis conspersa</i> .....	Sprinkled Broad-Winged Grasshopper -- G5 [SU].....				
<i>Eritettix simplex</i> .....	Velvet-striped Grasshopper -- G5 [SU].....				
<i>Pseudochorthippus curtipennis</i> .....	Marsh Meadow Grasshopper -- G5 [S4S5].....	FR			
<i>Mermiria bivittata</i> .....	Two-striped Mermiria -- G5 S2S3.....				
<i>Mermiria intertexta</i> .....	Intertexta Mermiria -- G4? S2S3.....				
<i>Mermiria picta</i> .....	Lively Mermiria -- G5 S3?.....				FR
<i>Dichromorpha elegans</i> .....	Elegant Grasshopper -- G5 [S3S4].....				IN
<i>Dichromorpha viridis</i> .....	Short-winged Green Grasshopper -- G5 [S5].....			RE	FR
<i>Orphulella pelidna</i> .....	Spotted-Wing Grasshopper -- G5 [S5].....				FR
<i>Orphulella speciosa</i> .....	Slant-faced Pasture Grasshopper -- G5 [SU].....				
<i>Leptysma marginicollis</i> .....	Cattail Toothpick Grasshopper.....			RE	RE
<i>Stenacris vitreipennis</i> .....	Glassy-winged Toothpick Grasshopper -- G5 S1S3.....				
<i>Paratylotropidia beutenmuelleri</i> .....	Beutenmuller's Locust -- G4 SU.....				
<i>Eotettix pusillus</i> .....	Little Eastern Grasshopper -- G2G3 S2.....				OC
<i>Hesperotettix viridis</i> .....	Meadow Purple-striped Grasshopper -- G5 SU.....				
<i>Hesperotettix viridis brevipennis</i> .....					
<i>Melanoplus acrophilus</i> .....	Peak-loving Green-legged Melanoplus -- G2G3 S2S3.....				
<i>Melanoplus angustipennis</i> .....	Narrow-winged Locust -- G5 SH->[S2S3].....				
<i>Melanoplus attenuatus</i> .....	Slender-bodied Melanoplus -- G2G3 SH.....				
<i>Melanoplus bispinosus</i> .....	Two-Spined Melanoplus -- G4G5 [SU].....				OC
<i>Melanoplus bivittatus</i> .....	Two-striped Grasshopper -- G5 [S5].....				FR
<i>Melanoplus carnegiei</i> .....	Carnegie's Melanoplus -- GU SH.....				
<i>Melanoplus celatus</i> .....	Secretive Short-wing Grasshopper -- GU [SU].....				
<i>Melanoplus cherokee</i> .....	Cherokee Melanoplus -- G1G3 S2?.....				
<i>Melanoplus confusus</i> .....	Pasture Grasshopper -- G5 [SU].....				
<i>Melanoplus coreyi</i> .....	Corey's Short-winged Grasshopper -- GNR S1.....				
<i>Melanoplus deceptus</i> .....	Deceptive Melanoplus -- G2G4 S2S3.....				
<i>Melanoplus decoratus</i> .....	Decorated Melanoplus -- GU S1S2->[SH].....				
<i>Melanoplus decorus</i> .....	Decorated Spur-throat Grasshopper -- G2G3 S2S3.....				FR
<i>Melanoplus devius</i> .....	Devious Melanoplus -- GU SU.....				
<i>Melanoplus differentialis</i> .....	Differential Locust -- G5 [S5].....				FR
<i>Melanoplus divergens</i> .....	Divergent Melanoplus -- G23 SH.....				
<i>Melanoplus eurycercus</i> .....	Wide Cercused Green-legged Melanoplus -- G4 S1.....				
<i>Melanoplus femurrubrum</i> .....	Red-legged Grasshopper -- G5 [S5].....				FR
<i>Melanoplus hubbelli</i> .....	Hubbell's Green-legged Melanoplus -- G4 SU.....				OC
<i>Melanoplus impudicus</i> .....	Immodest Spur-throat Grasshopper -- G4G5 SH.....				
<i>Melanoplus keeleri</i> .....	Keeler's Locust -- G5 [S4S5].....				
<i>Melanoplus keeleri keeleri</i> .....	Keeler's Locust -- G5 [S4S5].....				
<i>Melanoplus keeleri luridus</i> .....	Broad-necked Locust -- G5T5 [SU].....				
<i>Melanoplus mirus</i> .....	Weldon Melanoplus -- GH S1?.....				SE
<i>Melanoplus n. sp. 35</i> .....	An Undescribed Melanoplus -- [GNR SU].....				
<i>Melanoplus n. sp. 6</i> .....	An Undescribed Melanoplus -- [GNR SU].....				
<i>Melanoplus nigrescens</i> .....	Black-sided Spur-throat Grasshopper -- GU S3?.....				OC OC
<i>Melanoplus nossi</i> .....	Noss's Short-winged Grasshopper -- GNR [S1S2].....				OC
<i>Melanoplus nubilus</i> .....	Nubile Melanoplus -- G2G3 S2.....				FR
<i>Melanoplus pachycercus</i> .....	Thick Cercused Green-legged Melanoplus -- G2G3 S1S2.....				
<i>Melanoplus propinquus</i> .....	Southern Red-legged Melanoplus -- G5 [SU].....				OC
<i>Melanoplus punctulatus</i> .....	Grizzly Locust -- G4 [S4S5].....				IN
<i>Melanoplus punctulatus arboreus</i> .....	Southern Grizzly Locust -- G4[TNR] [SU].....				
<i>Melanoplus punctulatus punctulatus</i> .....	Grizzly Locust -- G4T4 [SU].....				

**Acrididae: [cont.]**

		MH	ML	P	C
<i>Melanoplus sanguinipes</i> .....	Migratory Locust -- G5 [S4S5].....				IN
<i>Melanoplus sanguinipes atlanis</i> .....	Lesser Migratory Locust.....				
<i>Melanoplus sanguinipes defectus</i> .....	no common name.....				
<i>Melanoplus scudderii</i> .....	Scudder's Short-winged Locust -- G5 [S5].....			RE	
<i>Melanoplus serrulatus</i> .....	Serrulate Melanoplus -- G1G3->[GH] SH.....				
<i>Melanoplus similis</i> .....	Similar Green-legged Melanoplus -- G5 SH.....				
<i>Melanoplus strumosus</i> .....	Swollen Spur-throat Grasshopper -- G4G5 S2S3->[S3?].....				FR
<i>Melanoplus sylvestris</i> .....	Woodland Short-winged Grasshopper -- G1G3 S1S2->[S3?].....				
<i>Melanoplus tribulus</i> .....	Tribulus Spur-throat Grasshopper -- G4G5 SU.....				OC
<i>Melanoplus walshii</i> .....	Walsh's Locust -- G4G5 SU.....	FR			
<i>Paroxya atlantica</i> .....	Atlantic Grasshopper; Atlantic Locust -- GU [S3S4].....				IN
<i>Paroxya clavuligera</i> .....	Olive-green Swamp Grasshopper -- G5 [S3S4].....				
<i>Booneacris variegata</i> .....	Variegated Wingless Locust -- G5 S2?.....				
<i>Dendrotettix australis</i> .....	Southern Dendrotettix -- GU SU.....				
<i>Dendrotettix zimmermanni</i> .....	Zimmermann's Dendrotettix -- GU S1?->[SH].....				
<i>Stethophyma celatum</i> .....	Otte's Sedge Grasshopper -- G4 S1S2.....				OC
<i>Arphia granulata</i> .....	Southern Yellow-winged Locust -- G5 S2S3.....				
<i>Arphia sulphurea</i> .....	Spring Yellow-winged Locust -- G5 [S5].....			FR	
<i>Arphia xanthoptera</i> .....	Autumn Yellow-winged Locust -- G5 [S5].....				
<i>Chortophaga australior</i> .....	Southern Green-Striped Locust -- G5 [SU].....				
<i>Chortophaga viridifasciata</i> .....	Northern Green-striped Locust -- G5 [S5].....			RE	FR
<i>Encoptolophus sordidus</i> .....	Dusky Grasshopper -- G5 SNA->[SH].....				
<i>Hippiscus ocelote</i> .....	Wrinkled Grasshopper -- G5 [S4S5].....			OC	OC
<i>Pardalophora apiculata</i> .....	Coral-winged Locust -- G5 SU.....				
<i>Pardalophora phoenicoptera</i> .....	Orange-Winged Grasshopper -- G5 [S5].....			FR	FR
<i>Psinidia fenestralis</i> .....	Long-horned Locust -- G5 [S4].....				FR
<i>Trachyrhachys kiowa</i> .....	Kiowa Locust -- G5 SU.....				
<i>Dissosteira carolina</i> .....	Carolina Locust -- G5 [S5].....	RE	RE	RE	RE
<i>Spharagemon bolli</i> .....	Boll's Locust -- G5 [S4S5].....			FR	FR
<i>Spharagemon cristatum</i> .....	Ridgeback Sand Locust -- G5 [S3S4].....				IN
<i>Spharagemon marmorata</i> .....	Marbled Locust.....				
<i>Spharagemon marmorata picta</i> .....	Southern Marbled Locust -- G5[TNR] [S3S4].....				
<i>Trimerotropis maritima</i> .....	Seaside Locust -- G5 [S4S5].....				OC
<i>Trimerotropis saxatilis</i> .....	Rock-loving Locust -- G3 S2?.....				FR

**Romaleidae: [1]**

<i>Romalea microptera</i> .....	Eastern Lubber Grasshopper -- G5 SU.....				
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**Tetrigidae: [18]**

<i>Paxilla obesa</i> .....	Obese Pygmy Grasshopper.....				
<i>Tettigidea armata</i> .....	Armored Pygmy Grasshopper.....				
<i>Tettigidea lateralis</i> .....	Black-sided Pygmy Grasshopper.....				
<i>Tettigidea lateralis lateralis</i> .....	Black-sided Pygmy Grasshopper.....				
<i>Tettigidea prorsa</i> .....	Cone-headed Pygmy Grasshopper.....				
<i>Neotettix femoratus</i> .....	Short-legged Pygmy Grasshopper.....				
<i>Neotettix proavus</i> .....	Fork-faced Pygmy Grasshopper.....				
<i>Nomotettix cristatus</i> .....	Crested Pygmy Grasshopper.....				
<i>Nomotettix cristatus compressus</i> .....	Western Crested Pygmy Grasshopper.....				
<i>Nomotettix cristatus cristatus</i> .....	Crested Pygmy Grasshopper.....				
<i>Paratettix cucullatus</i> .....	Hooded Pygmy Grasshopper.....				
<i>Paratettix mexicanus</i> .....	Mexican Pygmy Grasshopper.....				
<i>Tetrix arenosa</i> .....	Sanded Pygmy Grasshopper.....				
<i>Tetrix arenosa angusta</i> .....	Narrow Sanded Pygmy Grasshopper.....				
<i>Tetrix arenosa arenosa</i> .....	Sanded Pygmy Grasshopper.....				
<i>Tetrix ornata</i> .....	Ornate Pygmy Grasshopper.....				
<i>Tetrix ornata hancocki</i> .....	Hancock's Ornate Pygmy Grasshopper.....				
<i>Tetrix ornata ornata</i> .....	Ornate Pygmy Grasshopper.....				

**Tridactylidae: [2]**

<i>Ellipes minuta</i> .....	Smaller Sand Cricket.....				
<i>Neotridactylus apicalis</i> .....	Larger Pygmy Locust.....				

**Gryllidae: [58]**

<i>Acheta domesticus</i> .....	House Cricket -- GNR [SNA].....				
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**Gryllidae: [cont.]**

		MH	ML	P	C
<i>Anurogryllus arboreus</i> .....	Common Short-Tailed Cricket -- [GNR SU].....				
<i>Gryllus firmus</i> .....	Sand Field Cricket -- [GNR S4S5].....				FR
<i>Gryllus fultoni</i> .....	Southern Wood Cricket -- [G5 S5].....		FR	RE	
<i>Gryllus pennsylvanicus</i> .....	Fall Field Cricket -- G5 [S5].....	FR	FR	OC	
<i>Gryllus rubens</i> .....	Southeastern Field Cricket -- [G5 S5].....			RE	
<i>Gryllus veletis</i> .....	Spring Field Cricket -- G5 [SU].....				
<i>Miogryllus verticalis</i> .....	Eastern Striped Cricket -- [GNR SU].....				
<i>Velarifictorius micado</i> .....	Japanese Burrowing Cricket -- [GNR SNA].....				FR
<i>Hapithus agitator</i> .....	Restless Bush Cricket -- GNR [S4S5].....				
<i>Orocharis luteolira</i> .....	False Jumping Bush Cricket -- [GNR S4S5].....				FR FR
<i>Orocharis saltator</i> .....	Jumping Bush Cricket -- GNR [S5].....			RE	FR
<i>Cycloptilum antillarum</i> .....	Antillean Bush Cricket.....				
<i>Cycloptilum bidens</i> .....	Two-Toothed Scaly Cricket.....				
<i>Cycloptilum pigrum</i> .....	Reluctant Scaly Cricket.....				
<i>Cycloptilum slossoni</i> .....	Slosson's Scaly Cricket.....				
<i>Cycloptilum tardum</i> .....	Slow Scaly Cricket.....				
<i>Cycloptilum trigonipalpus</i> .....	Forest Scaly Cricket.....				
<i>Cycloptilum velox</i> .....	Swift Scaly Cricket.....				
<i>Myrmecophilus pergandei</i> .....	Eastern Ant Cricket.....				
<i>Allonemobius allardi</i> .....	Allard's Ground Cricket -- GNR [SU].....				RE
<i>Allonemobius fultoni</i> .....	Fulton's Ground Cricket -- [GNR SU].....				
<i>Allonemobius griseus</i> .....	Gray Ground Cricket.....				
<i>Allonemobius griseus funeralis</i> .....	Dusky Ground Cricket -- [G%TNR S3S5].....				
<i>Allonemobius maculatus</i> .....	Spotted Ground Cricket -- GNR [S4S5].....				FR
<i>Allonemobius socius</i> .....	Southern Ground Cricket -- [GNR S5].....				RE
<i>Allonemobius sparsalsus</i> .....	Salt-Marsh Ground Cricket -- [GNR SU].....				
<i>Allonemobius tinnulus</i> .....	Tinkling Ground Cricket -- GNR [S4S5].....				FR
<i>Allonemobius walkeri</i> .....	Walker's Ground Cricket -- [GNR SU].....				OC
<i>Allonemobius unidentified species</i> .....	a Ground Cricket.....				
<i>Eunemobius carolinus</i> .....	Carolina Ground Cricket -- GNR [S5].....				RE
<i>Eunemobius confusus</i> .....	Confused Ground Cricket -- [GNR SU].....				FR
<i>Eunemobius melodijs</i> .....	Melodious Ground Cricket -- [GNR SU].....				
<i>Neonemobius cubensis</i> .....	Cuban Ground Cricket -- [GNR S4S5].....				
<i>Neonemobius palustris</i> .....	Sphagnum Ground Cricket -- [GNR SU].....				
<i>Neonemobius variegatus</i> .....	Variegated Ground Cricket -- GNR [SU].....				OC
<i>Pictonemobius ambitiosus complex</i> .....	no common name -- [GR SU].....				
<i>Pictonemobius hubbelli</i> .....	Hubbell's Ground Cricket.....				
<i>Oecanthus celerinictus</i> .....	Fast-Calling Tree Cricket.....				
<i>Oecanthus exclamatoris</i> .....	Davis's Tree Cricket.....				
<i>Oecanthus fultoni</i> .....	Snowy Tree Cricket.....				
<i>Oecanthus latipennis</i> .....	Broad-Winged Tree Cricket.....				
<i>Oecanthus nigricornis</i> .....	Black-Horned Tree Cricket.....				
<i>Oecanthus niveus</i> .....	Narrow-Winged Tree Cricket.....				
<i>Oecanthus pini</i> .....	Pine Tree Cricket.....				
<i>Oecanthus quadripunctatus</i> .....	Four-Spotted Tree Cricket.....				
<i>Neoxabea bipunctata</i> .....	Two-Spotted Tree Cricket.....				
<i>Phyllopalpus pulchellus</i> .....	Handsome Trig -- GNR [S5].....				
<i>Anaxipha delicatula</i> .....	Chirping Trig.....				
<i>Anaxipha exigua</i> .....	Say's Trig.....				
<i>Anaxipha litarena</i> .....	Beach Trig.....				
<i>Anaxipha thomasi</i> .....	Thomas's Trig.....				
<i>Anaxipha tinnula</i> .....	Tidewater Trig.....				
<i>Anaxipha tinnulacita</i> .....	Fast-tinkling Trig.....				
<i>Anaxipha tinnulenta</i> .....	Slow-Tinkling Trig.....				
<i>Anaxipha vernalis</i> .....	Spring Trig.....				
<i>Cyrtoxipha columbiana</i> .....	Columbian Trig.....				FR
<i>Falcicula hebaridi</i> .....	Hebard's Trig.....				

**Gryllotalpidae: [3]**

<i>Neocurtilla hexadactyla</i> .....	Northern Mole Cricket.....				FR
<i>Neoscapteriscus borellii</i> .....	Southern Mole Cricket.....				

**Gryllotalpidae: [cont.]**

*Neoscapteriscus vicinus*..... Tawny Mole Cricket.....

**Rhaphidophoridae: [13]**

*Diestrammena asynamora*..... Greenhouse Camel Cricket.....  
*Diestrammena japonica*..... Japanese Camel Cricket.....  
*Ceuthophilus crassifemoris*..... Thick-legged Camel Cricket.....  
*Ceuthophilus gracilipes*..... A Camel Cricket.....  
*Ceuthophilus guttulosus*..... A Camel Cricket.....  
*Ceuthophilus guttulosus angulosus*..... A Camel Cricket.....  
*Ceuthophilus guttulosus guttulosus*..... A Camel Cricket.....  
*Ceuthophilus guttulosus thomasi*..... A Camel Cricket.....  
*Ceuthophilus lapidicola*..... A Camel Cricket.....  
*Ceuthophilus pallidipes*..... A Camel Cricket.....  
*Ceuthophilus uhleri*..... Uhler's Camel Cricket.....  
*Ceuthophilus walkeri*..... Walker's Camel Cricket.....  
*Euhadenoecus puteanus*..... A Camel Cricket.....

**Gryllacrididae: [1]**

*Camptonotus carolinensis*..... Carolina Leaf-roller -- GNR [S4S5].....

**Tettigoniidae: [62]**

*Conocephalus aigialus*..... Seashore Meadow Katydid.....  
*Conocephalus allardi*..... Allard's Meadow Katydid.....  
*Conocephalus brevipennis*..... Short-Winged Meadow Katydid..... RE  
*Conocephalus fasciatus*..... Slender Meadow Katydid..... RE  
*Conocephalus nemoralis*..... Woodland Meadow Katydid.....  
*Conocephalus nigropleuroides*..... Tidewater Meadow Katydid.....  
*Conocephalus saltans*..... Prairie Meadow Katydid.....  
*Conocephalus spartinae*..... Saltmarsh Meadow Katydid.....  
*Conocephalus stictomerus*..... Spotted-Legged Meadow Katydid -- [GNR S2S3].....  
*Conocephalus strictus*..... Straight-Lanced Meadow Katydid..... FR  
*Odontoxiphidium apterum*..... Wingless Meadow Katydid.....  
*Orchelimum agile*..... Agile Meadow Katydid..... FR FR  
*Orchelimum bradleyi*..... Bradley's Meadow Katydid -- GNR SU.....  
*Orchelimum campestre*..... Dusky-Faced Meadow Katydid.....  
*Orchelimum carinatum*..... Carinate Meadow Katydid.....  
*Orchelimum concinnum*..... Stripe-Faced Meadow Katydid.....  
*Orchelimum erythrocephalum*..... Red-Headed Meadow Katydid..... RE  
*Orchelimum fidicinium*..... Seaside Meadow Katydid.....  
*Orchelimum militare*..... Military Meadow Katydid.....  
*Orchelimum minor*..... Lesser Pine Katydid.....  
*Orchelimum nigripes*..... Black-Legged Meadow Katydid.....  
*Orchelimum pulchellum*..... Handsome Meadow Katydid..... FR FR  
*Orchelimum superbum*..... Superb Meadow Katydid -- GNR SU.....  
*Orchelimum vulgare*..... Common Meadow Katydid..... FR  
*Belocephalus subapterus*..... Half-Winged Conehead -- GNR S2S3.....  
*Bucrates malivolans*..... Cattail Conehead.....  
*Neoconocephalus bivocatus*..... False Robust Conehead.....  
*Neoconocephalus caudellianus*..... Caudell's Conehead.....  
*Neoconocephalus ensiger*..... Sword-Bearing Conehead.....  
*Neoconocephalus exiliscanorus*..... Slightly Musical Conehead.....  
*Neoconocephalus melanorhinus*..... Black-Nosed Conehead.....  
*Neoconocephalus palustris*..... Marsh Conehead.....  
*Neoconocephalus retusus*..... Round-Tipped Conehead.....  
*Neoconocephalus robustus*..... Robust Conehead.....  
*Neoconocephalus triops*..... Broad-Tipped Conehead..... FR  
*Neoconocephalus velox*..... Swift Conehead -- GNR SU.....  
*Pyrgocorypha uncinata*..... Hook-Faced Conehead..... FR  
*Amblycorypha alexanderi*..... Clicker Round-Winged Katydid.....  
*Amblycorypha arenicola*..... Sandhill Virtuoso Katydid -- GNR S2S3.....  
*Amblycorypha bartrami*..... Bartram's Round-Winged Katydid -- GNR S2S3.....  
*Amblycorypha carinata*..... Carinate Katydid.....

**Tettigoniidae: [cont.]**

		MH	ML	P	C
<i>Amblycorypha longinicta</i> .....	Common Virtuoso Katydid.....				
<i>Amblycorypha oblongifolia</i> .....	Oblong-Winged Katydid.....				
<i>Amblycorypha rotundifolia</i> .....	Rattler Round-Winged Katydid.....				
<i>Microcentrum retinerve</i> .....	Lesser Angle-Wing.....		RE	RE	RE
<i>Microcentrum rhombifolium</i> .....	Greater Angle-Wing.....				
<i>Montezumina modesta</i> .....	Modest Katydid -- GU SU.....				OC
<i>Inscudderia walkeri</i> .....	Eastern Cypress Katydid -- GNR SU.....				
<i>Scudderia cuneata</i> .....	Southeastern Bush Katydid.....				
<i>Scudderia curvicauda</i> .....	Curve-Tailed Bush Katydid.....				
<i>Scudderia curvicauda laticauda</i> .....	Broad-tailed Bush Katydid -- GNRTNR SU.....				
<i>Scudderia fasciata</i> .....	Treetop Bush Katydid.....				
<i>Scudderia furcata</i> .....	Fork-Tailed Bush Katydid.....				
<i>Scudderia septentrionalis</i> .....	Northern Bush Katydid -- G3? S2S3->[S3S4].....				
<i>Scudderia texensis</i> .....	Texas Bush Katydid.....				
<i>Pterophylla camellifolia</i> .....	Common True Katydid.....	RE	RE	RE	
<i>Atlanticus americanus</i> .....	American Shieldback.....				
<i>Atlanticus gibbosus</i> .....	Robust Shieldback -- GNR SNA->[SH].....				
<i>Atlanticus monticola</i> .....	Least Shieldback.....				
<i>Atlanticus pachymerus</i> .....	Southern Protean Shieldback.....				RE
<i>Hubbellia marginifera</i> .....	Pine Katydid -- GNR S3?.....				
<i>Atlanticus davisi</i> .....	Davis's Shield-bearer.....				

Frequency Codes:

- Regular [RE] -- almost always observed on given visit; >= 90% chance of observation
- Frequent [FR] -- usually observed on a given visit; >= 50%<90% chance of observation
- Infrequent [IN] -- observed less than 50% of visits; >=25%<50% chance of observation
- Occasional [OC] -- observed on only on a small minority of visits; >=10%<25% chance of observation
- Seldom [SE] -- not usually seen on visits; <10% chance of observation

These terms refer to visits to appropriate habitats made at appropriate times of the year, making use of common sampling/observation methods. Under those conditions, Frequency refers to the chance of observing at least one individual on a given visit made anywhere within a particular region, or over multiple visits to a single site.

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