lysistemon, microcarpa, sandwicensis, sykesii (as hybrid: sykesii xvariegata), and variegata. All were present and positive for Specularius at the NTBG in Lawa'i.

Material examined. KAUA'I: Various series were taken by A.C. Medeiros and associates from NTBG, Lawa'i, 7 Jan 2003, from seeds of various species of *Erythrina* (many ex.; hosts listed at end); Kekaha Road, 7 Jan 2003, ex E. sandwicensis, Medeiros (3 ex); same loc., 300 ft [100 m], 7 Jun 2003, E. sandwicensis, Arnold & Baynton (7 ex). All in BPBM. O'AHU: Mākaha Valley, S side at 240-360 ft [80–120 m], 1 Sep 2001, ex infested seeds in wiliwili groves [Erythrina sandwicensis] J. Lau, heavy infestation noted; Nanakuli Valley, 70 m, 10 Nov 2001, host on valley floor, seeds showing many exit holes, some occupied by beetles, Lau (2 ex); Waipahu, Village Park, 300 ft [100 m], collected late 2003 to 5 Jan 2004, ex seeds Erythrina sandwicensis, 2003 crop, S.L. Montgomery (51 ex) (BPBM). MAUI: Maui (E): Pu'u O Kali, ~800 ft [280 m], 15 Jun 2002, ex Erythrina sandwicensis seeds, F. & K. Starr collectors (series in HDOA); same loc., 9 Jul 2003, A.C. Medeiros et al. (8 ex, BPBM); Kanaio, 28 Jun 2003, ex seeds, E. sandwicensis, Medeiros et al. (21 ex, BPBM); Kahului Airport, 24 Aug 2003, ex Erythrina seeds, F.G. Howarth, F. & K. Starr (2 ex, + 1 larva, BPBM); Maui (W): Kaonohua Gulch, Alaloa subdivision, 9 Apr 2003, ex seeds on Erythrina sandwicensis, H. Oppenheimer (BPBM 5 ex, FSCA 4 ex). KAHO'OLAWE: Moaulaiki, 23 Sep 2003, degraded dry forest, ex seeds of Erythrina sandwicensis (seeds were observed to have eggs on them; adult emergence from seeds: 28 Sep-4 Oct 2003), M. LeGrande (#1343), F.& K. Starr (>20 ex, BPBM). HAWAI'I: Kona, Kaloko Rd, Jul 2003, E. sandwicensis, J. Wagner for Medeiros (8 ex, BPBM).

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New Arthropod Records from Kaho'olawe

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The following contributions include 36 new island records of arthropods located on the island of Kahoʻolawe. Of these new records, 4 are endemic and the rest are nonnative. Voucher specimens were collected by the authors, and determined by either the authors or by Mach Fukada. A couple specimens (*Omiodes* spp.) were confirmed by Will Haines. All vouchers are housed in Bishop Museum, Honolulu.

Blattodea: Blaberidae

Diploptera punctata (Eschscholtz)

New island record

Diploptera punctata (cypress cockroach) was previously known from all the main Hawaiian islands except Kahoʻolawe (Nishida 2002). This collection represents a new island record for Kahoʻolawe.

Material examined. KAHO'OLAWE: Moa'ulanui, under wood pile, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-8 (2 specimens).

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Pvcnoscelus indicus (Fabricius)

New island record

Pycnoscelus indicus (Surinam roach) was previously known from all the Northwestern Hawaiian islands except Lisianski, Gardner Pinnacles, and Necker and from all the main islands except Kahoʻolawe (Nishida 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, under wood pile, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-9 (1 specimen).

Blattodea: Blattidae

Periplaneta americana (Linnaeus)

New island record

Periplaneta americana (American cockroach) was previously known from all the Northwestern Hawaiian islands except Kure atoll and Gardner Pinnacles and from all the main islands except Ni'ihau and Kaho'olawe (Nishida 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, under wood pile, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-10 (1 specimen).

Coleoptera: Anthribidae

Araecerus levipennis Jordan

New island record

Araecerus levipennis (koa haole seed weevil) was previously known from Midway Atoll and all the main islands except Ni'ihau and Kaho'olawe (Nishida 2002).

Material examined. KAHO OLAWE: LZ1, on Leucaena leucocephala, 1300 ft [396 m], 23 Sep 2003, Starr, Starr, Abbott, LeGrande, & Busby 030923-14 (1 specimen); Lua Makika, vegetation sweeps, 1400 ft [425 m], 29 Mar 2004, Starr, Starr, & Abbott 040329-1 (11 specimens).

Coleoptera: Bostrichidae

Xylopsocus castanoptera (Fairmaire)

New island record

Xylopsocus castanoptera was previously known from Kaua'i, O'ahu, Moloka'i, and Hawai'i (Nishida 2002).

Material examined. KAHO'OLAWE: Keanakeiki, vegetation sweeps, 10 ft [3 m], 15 Oct 2003, Starr, Starr, King, Tokishi, & Busby 031015-13 (1 specimen); Moa'ulanui, vegetation sweeps, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-12 (1 specimen).

Coleoptera: Bruchidae

Acanthoscelides obtectus (Say)

New island record

Acanthoscelides obtectus (bean weevil) was previously known from the islands of Ni'ihau, Kaua'i, O'ahu, and Maui.

Material examined. KAHO'OLAWE: Hakio'awa gulch, on rock, 200 ft [60 m], 23 Sep 2003, Starr, Starr, Abbott, LeGrande, & Busby 030923-15 (1 specimen); LZ1, beaten from Tamarix aphylla, 1300 ft [396 m], 23 Sep 2003, Starr, Starr, Abbott, LeGrande, & Busby 030923-16 (2 specimens); LZ1, beaten from Chenopodium oahuense, 1300 ft [396 m], 23 Sep 2003, Starr, Starr, Abbott, LeGrande, & Busby 030923-17 (6 specimens); Moa'ulanui, vegetation sweeps, 1300 ft [396 m], 16 Oct 2003, Starr & Starr 031016-11 (5 specimens); Lua Makika, vegetation sweeps, 1400 ft [427 m], 29 Mar 2004, Starr & Starr 040329-2 (1 specimen).

Mimosestes nubigens (Motschulsky) New island record

Mimosestes nubigens (bean weevil) was previously known from Midway Atoll, Kaua'i, O'ahu, Moloka'i, Maui, and Hawai'i (Nishida 2002).

Material examined. KAHO'OLAWE: Lua Kealialalo, near LZ quail, from Prosopis pallida pods, 850 ft [259 m], 23 Sep 2003, Starr, Starr, Abbott, LeGrande, & Busby 030923-18 (1 specimen).

Stator limbatus (Horn)

New island record

Stator limbatus (bean weevil) was previously known from Kaua'i, O'ahu, Moloka'i, Maui, and Hawai'i (Nishida 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, vegetation sweeps, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-13 (1 specimen).

Stator pruininus (Horn)

New island record

Stator pruininus (pruinose bean weevil) was previously known from Midway atoll, Ni'ihau, Kaua'i, O'ahu, Moloka'i, Maui, and Hawai'i (Nishida 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, vegetation sweeps, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-14 (2 specimens); Lua Makika, vegetation sweeps, 1400 ft [425 m], 29 Mar 2004, Starr, Starr, & Abbott 040329-3 (1 specimen).

Coleoptera: Carabidae

Notiobia purpurascens (Bates)

New island record

Notiobia purpurascens was previously known from Oʻahu, Maui, and Hawaiʻi (Nishida 2002).

Material examined. KAHO'OLAWE: Hakio'awa gulch, on ground, 200 ft [60 m], 23 Sep 2003, Starr, Starr, Abbott, LeGrande, & Busby 030923-19 (1 specimen); Moa'ulanui, under wood pile, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-15 (1 specimen); Kaukaukapapa, near wetland, vegetation sweeps, 10 ft [3 m], 26 Feb 2004, Starr, Starr, & Higashino 040216-2 (1 specimen).

Coleoptera: Cleridae

Tillus notatus Klug

New island record

Tillus notatus was previously known from Kaua'i, O'ahu, and Maui (Nishida 2002).

Material examined. KAHO'OLAWE: Kaukaukapapa, vegetation sweeps, 10 ft [3 m], 15 Oct 2003, Starr, Starr, King, Tokishi, & Busby 031015-14 (1 specimen).

Coleoptera: Coccinellidae

Brumoides suturalis (Fabricius)

New island record

Brumoides suturalis (three-striped lady beetle) was previously known from Ni'ihau and O'ahu (Nishida 2002).

Material examined. KAHO'OLAWE: Honokanaia, 10 ft [3 m], 14 Oct 2003, Starr, Starr, & King 031014-7 (1 specimen); Kaukaukapapa, on Gossypium tomentosum, 10 ft [3 m], 15 Oct 2003, Starr, Starr, King, Tokishi, & Busby 031015-15 (1 specimen).

Coelophora inaequalis (Fabricius)

New island record

Coelophora inaequalis (common Australian lady beetle) was previously known from Kure and Midway Atolls, Nihoa, and all the main islands except Kahoʻolawe (Nishida 2002).

Material examined. KAHO'OLAWE: Honokanaia, grass sweeps, 15 ft [5 m], 16 Feb 2004, Starr, Starr, & Higashino 040216-3 (2 specimens); Kaukaukapapa, vegetation sweeps, 10 ft [3 m], 16 Feb 2004, Starr, Starr, & Higashino 040216-4 (1 specimen); Lua Makika, vegetation sweeps, 1400 ft [425 m], 29 Mar 2004, Starr, Starr, & Abbott 040329-4 (2 specimens).

Curinus coeruleus (Mulsant)

New island record

Curinus coeruleus (dark blue lady beetle) was previously known from Midway Atoll and all the main islands except Moloka'i and Kaho'olawe (Nishida 2002).

Material examined. KAHO'OLAWE: Lua Makika, 1400 ft [425 m], 29 Mar 2004, Starr, Starr, & Abbott 040329-5 (6 specimens).

Rodolia cardinalis (Mulsant)

New island record

Rodolia cardinalis (vedalia beetle) was previously known from Midway Atoll and all the main islands except Moloka'i and Kaho'olawe (Nishida 2002).

Material examined. KAHO'OLAWE: Kaukaukapapa, vegetation sweeps, 10 ft [3 m], 15 Oct 2003, Starr, Starr, King, Tokishi, & Busby 031015-16 (1 specimen).

Scymnus loewii Mulsant

New island record

Scymnus loewii (Scymnus lady beetle) was previously known from all the Northwestern Hawaiian Islands except Midway atoll and Gardner Pinnacles and all the main islands except Kahoʻolawe.

Material examined. KAHOʻOLAWE: Puʻu Moaʻulaiki, on ground, 1200 ft [365 m], 22 Sep 2003, Starr, Starr, Abbott, LeGrande, & Busby 030922-15 (1 specimen); Honokanaia, beaten from Hibiscus tiliaceus, 25 ft [8 m], 14 Oct 2003, Starr, Starr, & King 031014-8 (7 specimens); Kaukaukapapa, vegetation sweeps, 10 ft [3 m], 15 Oct 2003, Starr, Starr, King, Tokishi, & Busby 031015-17 (1 specimen); Lua Makika, vegetation sweeps, 1400 ft [425 m], 29 Mar 2004, Starr, Starr, & Abbott 040329-6 (4 specimens).

Coleoptera: Chrysomellidae

Diachus auratus (Fabricius)

New island record

Diachus auratus (bronze leaf beetle) was previously known from Midway Atoll and all the main islands except Lāna'i and Kaho'olawe (Nishida 2002).

Material examined. KAHO'OLAWE: Kaukaukapapa, vegetation sweeps, 10 ft [3 m], 15 Oct 2003, Starr, Starr, King, Tokishi, & Busby 031015-18 (1 specimen); Lua Makika, vegetation sweeps, 1400 ft [425 m], 29 Mar 2004, Starr, Starr, & Abbott 040329-7 (3 specimens).

Coleoptera: Nitidulidae

Urophorus humeralis (Fabricius)

New island record

Urophorus humeralis (sap beetle) was previously known from Kaua'i, O'ahu, Lāna'i, and Maui (Nishida 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, vegetation sweeps, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-16 (1 specimen).

Dermaptera: Carcinophoridae

Euborellia annulipes (Lucas)

New island record

Euborellia annulipes (ring-legged earwig) was previously known from all the Northwestern Hawaiian Islands except Lisianski and Gardner Pinnacles and all the main islands except Ni'ihau and Kaho'olawe.

Material examined. KAHO'OLAWE: Gunfire range, under wood pile, 600 ft [200 m], 30 Mar 2004, Starr, Starr, & Abbott 040330-2 (1 specimen).

Euborellia eteronoma (Borelli)

New island record

Euborellia eteronoma (Hawaiian earwig) was previously known from all the Northwestern Hawaiian Islands except Midway and Kure atolls, Necker, and Nihoa and all the main islands except Ni'ihau and Kaho'olawe (Nishida 2002).

Material examined. KAHO'OLAWE: Gunfire range, under wood pile, 600 ft [200 m], 30 Mar 2004, Starr, Starr, & Abbott 040330-3 (2 specimens).

Diptera: Syrphidae

Allograpta exotica (Wiedemann)

New island record

Allograpta exotica (syrphid fly) was previously known from Kaua'i, O'ahu, Moloka'i, Maui, and Hawai'i (Nishida 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, vegetation sweeps, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-17 (1 specimen).

Simosyrphus grandicornis (Macquart)

New island record

Simosyrphus grandicornis (hover fly) was previously known from all the Northwestern Hawaiian islands except Lisianski, Laysan, Gardner Pinnacles, and Necker and from all the main islands except Ni'ihau, Lāna'i, and Kaho'olawe (Nishida 2002).

Material examined. KAHO'OLAWE: Kaukaukapapa, vegetation sweeps, 10 ft [3 m], 16 Feb 2004, Starr, Starr, & Higashino 040216-5 (8 specimens).

Embiidina: Ologotomidae

Oligotoma saundersii (Westwood)

New island record

Oligotoma saundersii (Saunders embiid, webspinner) was previously known from all the Northwestern Hawaiian Islands except Kure Atoll, Lisianski, French Frigate Shoals, and Gardner Pinnacles, and all the main islands except Kahoʻolawe (Nishida 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, vegetation sweeps, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-18 (1 specimen).

Heteroptera: Lygaeidae

Graptostethus manillensis (Stål)

New island record

Graptostethus manillensis (woodrose bug) was previously known from all the main islands except Moloka'i and Kaho'olawe (Nishida 2002).

Material examined. KAHO OLAWE: Honokanaia, beaten from Hibiscus tiliaceus, 25 ft [8 m], 14 Oct 2003, Starr, Starr, & King 031014-9 (3 specimens).

Heteroptera: Pentatomidae

Nezara viridula (Linnaeus)

New island record

Nezara viridula (southern green stink bug) was previously known from all the main islands except Ni'ihau and Kaho'olawe (Nishida 2002).

Material examined. KAHO OLAWE: Lua Makika, vegetation sweeps, 1400 ft [425 m], 29 Mar 2004, Starr, Starr, & Abbott 040329-8 (1 specimen).

Oechalia pacifica (Stål)

New island record

Oechalia pacifica (Hawaiian stink bug) was previously known from all the main islands except Ni'ihau and Kaho'olawe (Nishida 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, picked from Tamarix aphylla, 1300 ft [396 m], 29 Mar 2004, Starr, Starr, & Abbott 040329-9 (6 specimens).

Homoptera: Cicadellidae

Planiocephalus flavicosta (Stål)

New island record

Planiocephalus flavicosta (leafhopper) was previously known only from the island of O'ahu (Nishida 2002).

Material examined. KAHO'OLAWE: Honokanaia, swept from Cenchrus ciliaris, 10 ft [3 m], 14 Oct 2003, Starr, Starr, & King 031014-10 (2 specimens).

Hymenoptera: Evaniidae

Evania appendigaster (Linnaeus)

New island record

Evania appendigaster (larger ensign wasp) was previously known from Midway Atoll, Ni'ihau, O'ahu, Maui, and Hawai'i (Nishida 2002; Howarth et al., 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, on water tank, 1400 ft [425 m], 30 Mar 2004, Starr, Starr, & Abbott 040330-4 (1 specimen).

Hymenoptera: Vespidae

Pachodynerus nasidens (Latreille)

New island record

Pachodynerus nasidens (wasp) was previously known from Midway Atoll and all the main islands except Kahoʻolawe (Nishida 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, vegetation sweeps, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-19 (1 specimen).

Isoptera: Kalotermitidae

Cryptotermes brevis (Walker)

New island record

Cryptotermes brevis (drywood termite) was previously known from Midway Atoll, Lisianski, Laysan, and French Frigate Shoals and all the main islands except Kahoʻolawe (Nishida 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, vegetation sweeps, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-20 (1 specimen).

Lepidoptera: Crambidae

Omiodes continuatalis (Wallengren)

New island record

Omiodes continuatalis was previously known from all the main islands except Ni'ihau and Kaho'olawe. This species is a generalist on grasses and is one of the more common *Omiodes* species found in the main islands, even though it was previously thought to be extinct (W. Haines, pers. comm.).

Material examined. **KAHO'OLAWE**: Honokania, basecamp, came to light at night, associated grasses in vicinity include *Sporobolus virginicus, Cenchrus ciliaris, and Chloris* spp., 15 ft [5 m], 16 Feb 2004, *Starr & Starr 040216-1* (1 specimen).

Omiodes demaratalis (Walker)

New island record

Omiodes demaratalis (Hawaiian grass leaf roller moth) was previously known from all the main islands except Lāna'i and Kaho'olawe (Nishida 2002). It is now also known from Kaho'olawe where it was found at Hakio'awa, near the coast, on *Sporobolus virginicus* ('aki'aki) that had been planted a few years prior for restoration purposes. Numerous (dozens) O. demaratalis flushed from the large patch of S. virginicus as we walked through sweeping with the net. This species is known to use grasses such as Digitaria sp. and Panicum sp., species which are abundant on Kaho'olawe.

Material examined. KAHO'OLAWE: Hakio'awa, coastal strand, swept from Sporobolus virginicus, 10 ft [3 m], 30 Mar 2004, Starr, Starr, & Tokishi 040330-1 (4 specimens).

Lepidoptera: Lycaenidae

Lampides boeticus (Linnaeus)

New island record

Lampides boeticus (bean butterfly) was previously known from Necker, Nihoa, and all the main islands except Kahoʻolawe (Nishida 2002).

Material examined. KAHO'OLAWE: Road to Pu'u Moa'ulaiki, swept from Macroptilium sp., 1200 ft [365 m], 30 Mar 2004, Starr, Starr, & Tokishi 040330-5 (2 specimens).

Lepidoptera: Noctuidae

Eublemma accedens (Felder & Rogenhofer) New island record

Eublemma accedens ('uhaloa moth) was previously known from all the main islands except Ni'ihau, Lāna'i, and Kaho'olawe (Nishida 2002; Howarth et al. 2002). On Kaho'olawe it is common from sea level to the summit.

Material examined. KAHO'OLAWE: Honokanaia, basecamp, KIRC hut, at light, 25 ft [8 m], 19 Jan 2004, Starr, Starr, & Higashino 040119-1 (1 specimen); Honokanaia, basecamp, KIRC hut, at light, 25 ft [8 m], 16 Feb 2004, Starr, Starr, & Higashino 040216-6 (1 specimen).

Lepidoptera: Sphingidae

Agrius cingulata (Fabricius)

New island record

Agrius cingulata (sweet potato hornworm) was previously known from Midway Atoll, Laysan, and all the main islands except for Kahoʻolawe.

Material examined. KAHO OLAWE: Honokanaia, basecamp, KIRC hut, on floor, collected by L. Abbott, 25 ft [8 m], 28 Dec 2004, Starr, Starr, & Abbott 041228-1 (1 specimen).

Orthoptera: Acrididae

Schistocerca nitens (Thunberg)

New island record

Schistocerca nitens (vagrant grasshopper) was previously known from Necker, Nihoa, and all the main islands except Ni'ihau and Kaho'olawe (Nishida 2002).

Material examined. KAHO'OLAWE: Moa'ulanui, vegetation sweeps, 1300 ft [396 m], 16 Oct 2003, Starr, Starr, & Mar 031016-21 (1 specimen).

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First record of coral crabs of the family Tetraliidae (Crustacea: Brachyura) from the Hawaiian Islands $^{\rm l}$

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Brachyuran crabs of the family Tetraliidae Castro *et al.* 2004, which comprises the genera *Tetralia* Dana and *Tetraloides* Galil are obligate symbionts of species of *Acropora*, scleractinian corals of circumtropical distribution. Tetraliids were formerly grouped with species of *Trapezia* Dana and other coral crabs in the family Trapeziidae Miers. All 8 described species of tetraliids are restricted to the Indo-West Pacific region (see Castro *et al.* 2004). Although 6 species of *Trapezia* are known from the Hawaiian Islands (Castro 1998), tetraliids have never been recorded from the archipelago until their recent discovery among collections made at French Frigate Shoals under the auspices of the Northwestern Hawaiian Islands Rapid Assessment and Monitoring Program 2000 (NOW-RAMP 2000). The family had been previously recorded anywhere *Acropora* occurs

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