

Seventeen new plant species for the NATL

By Cliff Martin

Between 2000 and 2002, I completed 3 units of Dr. Judd's independent studies in botany, BOT 6905. I collected, identified, and prepared 282 herbarium specimens (273 plant species) deposited in the UF Herbarium (Cliff G. Martin, collection numbers #1-#282). I focused on common plants. Although some specimens were taken from south Florida, most of them are from the southwest part of Gainesville. Many plants were taken from the Natural Area Teaching Lab and adjoining grounds.

In addition to botanical references, the map of the NATL and Dr. Ward's list of NATL plants helped me to identify plants and describe their collection sites. Based on Dr. Ward's list, however, some of my plant specimens seem to be newly discovered for the NATL; their identifications were corroborated by Dr. Judd when he graded my projects.

The new species I found are shown below in a format similar to that of Dr. Ward's plant list webpages, such as by listing each collection site by its 50-meter quadrant and by its ecological community when known. I5/J5 means near the boundary between I5 and J5, or in the quadrant I5 and/or J5. Collection numbers include #1-#100 for my first unit of BOT 6905 (collected in 2000) and #101-#282 for my final two units of BOT 6905 (collected in 2002). I was uncertain how to distinguish between common (C), frequent (F), or infrequent (I) occurrences of plants as defined in this webpage. I therefore usually listed more than one occurrence code for likely representations of a plant abundance. For example, I listed many species that seemed to be widespread as (I, F, or C), whereas plants of a more isolated occurrence were often (R or I).

I employed the following five codes for the habitats listed in the NATL webpages: HAMmock; Upland Pine, Unburned (UPU); upland pine burned (UPB); old field succession (OFS); and WETlands. I added a sixth code for the type of disturbed habitat found only along the west boundary of D2. Here, soil has spilled across the chain-link fence from the pile of potting soil on the Florida Division of Plant Industry side onto the NATL side to form a strip 1 m wide along several meters of fence along the west boundary of D2. I refer to this zone as "DPIS" for soil of the Florida Division of Plant Industry.

I. My survey found 17 new plant species in the NATL not shown in Dr. Ward's plant list webpage, which are listed as follows:

- #85 *Ageratina jucunda* Nov 6 2000 D2, along firebreak (UPB; I, F, or C)
- #147 *Agrostis hyemalis* Apr 21 2002 I5/J5, lawn at edge of woods (OFS; R)
- #148 *Carex longi* Apr 21 2002 I5/J5, lawn at edge of woods (OFS; I, F, or C)
- #232 *Corchorus aestuans* Sep 21 2002 E2/F2, along fence (OFS; I or F)
- #260 *Crotalaria pumila* Oct 23 2002 F5, in woods (HAM; I or F)
- #128 *Eustachys distichophylla* Aug 8 2002 J4/J5, lawn at edge of woods (OFS; R or I). This population may have been eradicated when the ramada and its surrounding lawn strip were added in the Fall, 2002)
- #122 *Hedyotis procumbens* Feb 20 2002 D2, in firebreak (UPB; I, or F)
- #60 *Helianthus agrestis* Sep 7 2000 F3 (OFS; I, F, or C)
- #256 *Ipomoea indica* Oct 18 2002 F7, in woods (HAM; I, F, or C)
- #231 *Ipomoea turbinata* Sep 21 2002 H3, along the north side of trail (OFS; I, F, or C)
- #269 *Paronychia americana* Nov 5 2002 D3, along fence (UPB; R or I)
- #156 *Paspalum plicatum* Apr 26 2002 I5/J5, lawn at edge of woods (OFS; R or I)
- #163 *Paspalum urvillei* May 17 2002 I5/J5, lawn at edge of woods (OFS; I, F, or C)
- #262 *Phaseolus polystachios* Oct 28 2002 G6, in woods (HAM; I, F, or C)
- #184 *Setaria pumila* Jun 17 2002 I4, shore of pond (WET; R or I)
- #81 *Urochloa platyphylla* Oct 31 2000 F4 (OFS; I, F, or C)
- #120 *Vicia hirsuta* Feb 16 2002 I5, along road (OFS; R, I, or F)

II. The survey also found the six plant species listed below that were previously reported but not confirmed for the NATL. They are enclosed in quotes in Dr. Ward's website.

- #179 *Commelina erecta* Jun 5 2002 D2, along firebreak (UPB; I, F, or C)
- #144 *Cyperus virens* Apr 18 2002 I5/J5, lawn at edge of woods (OFS; R or I)
- #145 *Sonchus asper* Apr 18 2002 I5/J5, lawn at edge of woods (OFS; I or F)
- #233 *Sorghum halepense* Sep 21 2002 G1, north boundary of NATL (OFS; I or F)
- #115 *Trifolium campestre* Feb 2 2002 I5, along dirt road (OFS; I or F)
- #133 *Triodanis perfoliata* Mar 31 2002 J5, edge of dirt road (OFS; I or F)

III. In addition, the survey found four plant species growing in the potting soil pile of the Florida Division of Plant Industry less than 5 m from the NATL boundary. Each would represent a new plant species for the natural area if found there. Here, an * denotes a plant also observed growing on the NATL side of the fence in the DPIS zone of D2.

- #28 *Amaranthus blitum* Jun 25 2000 1 m from D2 fence
- #117 *Fumaria officinalis* Feb 6 2002 3 m from D2 fence
- #88 **Laportea aestuans* Nov 7 2000 2 m from D2 fence
- #78 **Poinsettia dentata* Jul 27 2000 2 m from D2 fence

These specimens have been deposited into the UF Herbarium under the above Cliff G. Martin collection numbers. Hopefully, this information will help provide a better understanding of the NATL floristic makeup.

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