Revised Flora and List of Threatened and Endangered Plants for the John F. Kennedy Space Center Area, Florida

Paul A. Schmalzer, Tammy E. Foster, and Brean W. Duncan

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Dynamic Corporation
Kennedy Space Center

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Abstract

The vascular flora of the Kennedy Space Center (KSC) area was first studied in the 1970's (Sweet 1976, Poppleton et al. 1977), and the list was revised in 1990 (Schmalzer and Hinkle 1990). Nomenclatural and taxonomic changes as well as additional collections required a new revision of this list. The revised list includes 1024 taxa of which 803 are native and 221 are introduced. This appears to be a substantial proportion of the regional flora. Fifty taxa are endemic or nearly endemic to Florida, a level of endemism that appears high for the east coast of Florida. Of the 221 introduced plants, twenty-six are Category I invasive exotics and fifteen are Category II invasive exotics. Thirty-eight taxa are listed as threatened, endangered, or of special concern on state lists. For some of these taxa, populations on KSC appear to be important for their regional and global survival. The bryophyte flora of the KSC area include 23 mosses and 20 liverworts and hornworts (Whittier and Miller 1976). The lichen flora is currently unknown.
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Acknowledgments

This study was conducted under NASA contract NAS10-02001. Earlier work was conducted under contracts NAS10-10285, NAS10-11624, and NAS10-12180. Trade names and commercial enterprises or products are mentioned only for information. No endorsement by NASA is implied by their use.
Introduction

The vascular flora of an area is a basic component of its biological diversity and an important consideration for environmental planning and impact assessment. In this report, we provide an updated and revised floristic list for the Kennedy Space Center area. We discuss those species listed as threatened or endangered under state or federal laws or regulations.

Floristic Lists

The first vascular floristic list for Kennedy Space Center (KSC) was prepared by botanists from the University of Central Florida (UCF) (Sweet 1976, Poppleton et al. 1977). It was based on collections primarily from northern Merritt Island (from Banana Creek to Haulover Canal) but also included plants from "excursions to the southern point of the Cape (Sebastian Inlet)" (Sweet 1976). The list published in the Florida Scientist included "all of coastal Brevard County east of the Indian River, and that portion of Volusia County included in the recently created Canaveral National Seashore" (Poppleton et al. 1977). Neither list corresponded exactly to the political boundaries of KSC.

In 1990, we revised the floristic list (Schmalzer and Hinkle 1990) based on additional vegetation and floristic studies (e.g., Breininger and Schmalzer 1990, Schmalzer and Hinkle 1987, Schmalzer et al. 1991) and new manuals and references treating all or part of the central Florida flora (Cronquist 1980, Godfrey and Wooten 1979, 1981; Wunderlin 1982, Wunderlin et al. 1985, 1988; Lellinger 1985).

Since then several manuals treating all or part of the vascular flora of Florida have appeared (Isely 1990, Flora of North America Editorial Committee 1993, 1997,

Bryophytes of the KSC area are known from the work of Whittier and Miller (1976). No subsequent additions or changes to this list are known, but it is included here so that available floristic information is centralized.

Threatened and Endangered Plants

The environmental impact statement for KSC (NASA 1979) provided the first list of threatened and endangered plants for the site; 11 taxa (Acrostichum aureum, Annona glabra, Avicennia germinans, Asclepias curtissii, Chrysophyllum oliviforme, Drosera intermedia, Ophioglossum palmatum, Peperomia obtusifolia, Rhizophora mangle, Tournefortia gnaphalodes, Zamia integrifolia) were listed. Poppleton (1981) provided information on 12 taxa (Asclepias curtissii, Calamovilfa curtissii, Cereus erioiphorus var. fragrans, Chrysophyllum oliviforme, Hymenocallis latifolia, Lechea cemua, Ophioglossum palmatum, Persea borbonia var. humilis, Rhynchosia cinerea, Verbena maritima, Verbena tampensis, Zamia umbrosa) then proposed for federal listing under the Endangered Species Act and two taxa (Avicennia germinans, Rhizophora mangle) of special interest in Florida (Ward 1978). Schmalzer and Hinkle (1985) included taxa listed by the state of Florida as well as those under review by the U.S. Fish and Wildlife Service; this list contained 60 taxa. In 1990, 73 taxa in the KSC flora were listed by state or federal agencies (Schmalzer and Hinkle 1990). As information on the
population status and threats to rare plants accumulates, agencies revise their lists of species of concern by adding taxa not previously listed, removing taxa shown to be more common than previously thought, and changing categories. Florida state lists have changed significantly in recent years (Coile 1996, 1998, 2000; Marois 1997). In addition, the U.S. Fish and Wildlife Service no longer maintains a list of Category 1 or 2 species; these categories previously indicated species that were under review but for which comprehensive data were lacking. Therefore, the list of threatened and endangered plants for KSC also required revision.

Methods

Floristic List

In 1990, the original floristic list of Sweet (1976) with additions and corrections of Poppleton et al. (1977) and Poppleton (1981) was compared to nomenclature of Wunderlin (1982), Wunderlin et al. (1985, 1988), Godfrey and Wooten (1979, 1981), Cronquist (1980), and Lellinger (1985). In addition, Hitchcock and Chase (1950), Bailey (1949), and Luer (1972) were consulted for certain groups. In the present revision, we compared the 1990 list (Schmalzer and Hinkle 1990) to Wunderlin (1998) and Wunderlin and Hansen (2000) and consulted treatments in the Flora of North America (Flora of North America Editorial Committee 1993, 1997, 2000). Nomenclature follows Wunderlin (1998) except in a few cases where the treatment in the Flora of North America was used. The nomenclature for some introduced plants not in Wunderlin (1998) follows Bailey (1949).
Examination of taxonomic monographs on all the groups represented in this flora was beyond the extent of the present effort. The specimens on which the original floristic list was based are housed at the UCF Herbarium (Sweet 1976, Poppleton et al. 1977); these specimens were not examined for this revision.

Some species were eliminated when it was clear they had been misidentified. More frequent were name changes or varieties or species now reduced to synonymy. We added additional species from fieldwork conducted since 1990.

Introduced and Endemic Plants

We examined the revised species list to determine which species were introduced (non-native) by comparing to comments in Wunderlin (1998) or to other manuals for species not listed there. We considered species to be native to the KSC area if they were native to central Florida. For introduced species, we examined the list of invasive species (Florida Exotic Pest Plant Council 2001) to determine if they were considered invasive. There are two categories maintained by the Florida Exotic Pest Plant Council. Category I includes invasive exotics that are altering native plant communities by displacing native species, changing community structures or ecological functions, or hybridizing with natives; Category II includes invasive exotics that have increased in abundance or frequency but have not yet altered Florida plant communities to the extent shown by Category I species.

We compared the revised floristic list to the list of vascular plants endemic to Florida of Muller et al. (1989) and to comments in Wunderlin (1998) to determine taxa endemic to Florida occurring in the KSC area. The categories used were those of Muller
et al. (1989): endemic to Florida, nearly endemic to Florida (range exceeds Florida's boundaries by < 10%), and not endemic.

Threatened and Endangered Plants

We compared the revised floristic list to the most recent lists of endangered and threatened plants of Florida (Marois 1997, Coile 2000). We also compiled available information on population status, habitat, and threats to existence for the listed taxa.

Spatial location information was available for certain species (Poppleton 1981, Johnson 1993, Chafin et al. 1996, Schmalzer unpublished). Some of these species are no longer considered rare enough to justify listing. For Calamovilfa curtissii, Chamaesyce cumulicola, Glandularia (=Verbena) maritima, Glandularia (=Verbena) tampensis, Lantana depressa var. floridana, Lechea cernua, Lechea divaricata, Ophioglossum palmatum, and Persea borbonia var. humilis, the plant locations were screen digitized on digital orthophoto quadrangles (DOQ) following the written field descriptions. Point features were added to a GIS coverage with genus, species, and rank information appended as attributes of the spatial locations.

Results

Floristic Lists

The revised vascular floristic list includes 1024 taxa of vascular plants (Appendix I). Of this flora, 221 taxa (21.6%) are introduced (Appendix II) and 803 are native. Twenty-six Category I invasive exotic plants and fifteen Category II invasive exotic plants occur (Appendix II). Fifty of the native taxa (6.2%) are endemic to Florida (Appendix III).
Bryophytes of the KSC area include 43 taxa, 23 mosses (Musci) and 20 liverworts and hornworts (Hepaticae and Anthocerotae) (Whittier and Miller 1976) (Appendix IV).

Threatened and Endangered Plants

Thirty-eight taxa (Table 1) are listed as threatened, endangered, or of special concern by the Florida Department of Agriculture and Consumer Services (Coile 2000), Florida Natural Areas Inventory (Marois 1997), or Florida Committee on Rare and Endangered Plants and Animals (Ward 1978). Endangered and threatened plants occur in various habitats including coastal dunes, coastal strand, scrub, pine flatwoods, hammocks, hardwood swamps, marshes, and mangrove swamps (Table 2). Species occur in various geographical locations throughout the area (Figure 1). Detailed information on locations and population status of these taxa is available only for those studied by Poppleton (1981), Johnson (1993), Chafin et al. (1996), or encountered in fieldwork related to long-term environmental monitoring and research at KSC.

Discussion

Floristic List

The KSC area supports a large vascular flora with elements of temperate distribution some of which approach the southern edge of their distribution and plants of subtropical distribution at or near the northern edge of their distribution. The number reported here (1024) is less than that (1045) reported in 1990 (Schmalzer and Hinkle 1990). The reduction is due to varieties or species reduced to synonomy by taxonomic revisions or to species excluded that were misidentified previously or appear to be out of range. Future work will result in other changes to the list. There have been additions
Table 1. Status of endangered and threatened plants of the Kennedy Space Center Area.

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>USFWS</th>
<th>FDA</th>
<th>FCREPA</th>
<th>FNAI</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Amyris balsamifera</em></td>
<td>Balsam torchwood</td>
<td></td>
<td></td>
<td></td>
<td>G4, S2</td>
</tr>
<tr>
<td><em>Asclepias curtissi</em> ^6, 8, 9</td>
<td>Curtiss milkweed</td>
<td>E</td>
<td></td>
<td></td>
<td>G3, S3</td>
</tr>
<tr>
<td><em>Avicennia germinans</em> ^6, 7, 8</td>
<td>Black mangrove</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Calamovilfa curtissi</em> ^5, 7</td>
<td>Curtiss reedgrass</td>
<td>FC2</td>
<td>T</td>
<td></td>
<td>G1G2,S1S2</td>
</tr>
<tr>
<td><em>Calopogon multiflorus</em></td>
<td>Many-flowered grass pink</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Chamaesyce cumulicola</em> ^9</td>
<td>Sand dune spurge</td>
<td>FC2</td>
<td>E</td>
<td></td>
<td>G2,S2</td>
</tr>
<tr>
<td><em>Chrysophyllum oliviforme</em> ^6, 7, 9</td>
<td>Satinleaf</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Encyclia tampensis</em></td>
<td>Butterfly orchid</td>
<td></td>
<td></td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><em>Epidendrum canopseum</em></td>
<td>Greenfly orchid</td>
<td></td>
<td></td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><em>Harrisella filiformis</em></td>
<td>Threadroot orchid</td>
<td></td>
<td></td>
<td>T</td>
<td></td>
</tr>
<tr>
<td><em>Hexalectris spicata</em></td>
<td>Crested coralroot</td>
<td></td>
<td></td>
<td></td>
<td>E</td>
</tr>
<tr>
<td><em>Lantana depressa var. floridana</em> ^7, 9</td>
<td>East coast lantana</td>
<td>FC2</td>
<td>E</td>
<td></td>
<td>G2T2,S2</td>
</tr>
<tr>
<td><em>Lechea cernua</em> ^6, 9</td>
<td>Nodding pinweed</td>
<td>FC2</td>
<td>T</td>
<td></td>
<td>G3, S3</td>
</tr>
<tr>
<td><em>Lechea divaricata</em> ^7</td>
<td>Pine pinweed</td>
<td>FC2</td>
<td>E</td>
<td></td>
<td>G2, S2</td>
</tr>
<tr>
<td><em>Lilium catesbaei</em></td>
<td>Catesby lily</td>
<td></td>
<td></td>
<td>T</td>
<td>G4, S3</td>
</tr>
<tr>
<td><em>Myrcianthes fragrans</em> ^7</td>
<td>Nakedwood</td>
<td>FC2</td>
<td>T</td>
<td></td>
<td>G4T3,S3</td>
</tr>
<tr>
<td><em>Ophioglossum palmatum</em> ^6, 8, 9</td>
<td>Hand fern</td>
<td></td>
<td></td>
<td>E</td>
<td>G5, S2</td>
</tr>
<tr>
<td>(= <em>Cheiroglossa palmata</em>)</td>
<td></td>
<td></td>
<td></td>
<td>E</td>
<td></td>
</tr>
<tr>
<td><em>Opuntia stricta</em> ^7</td>
<td>Shell mound prickly-pear</td>
<td></td>
<td></td>
<td>T</td>
<td></td>
</tr>
<tr>
<td><em>Osmunda cinnamomea</em> ^7</td>
<td>Cinnamon fern</td>
<td></td>
<td></td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><em>Osmunda regalis var. spectabilis</em> ^7</td>
<td>Royal fern</td>
<td></td>
<td></td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><em>Pavonia spinifex</em> ^9</td>
<td>Yellow hibiscus</td>
<td></td>
<td></td>
<td></td>
<td>G4G5,S2S3</td>
</tr>
<tr>
<td>Scientific Name</td>
<td>Common Name</td>
<td>USFWS</td>
<td>FDA</td>
<td>FCREPA</td>
<td>FNAI</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>-----------------------------------------------</td>
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<td>------</td>
</tr>
<tr>
<td><em>Peclumula plumula</em> (=<em>Polypodium plumula</em>)</td>
<td>Plume polypody</td>
<td>E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Peperomia humilis</em></td>
<td>Peperomia</td>
<td>E</td>
<td></td>
<td></td>
<td>G5, S2</td>
</tr>
<tr>
<td><em>Peperomia obtusifolia</em>²</td>
<td>Florida peperomia</td>
<td>E</td>
<td></td>
<td></td>
<td>G5, S2</td>
</tr>
<tr>
<td><em>Persea borbonia var. humilis</em>², ⁷</td>
<td>Scrub bay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Pogonia ophioglossoides</em></td>
<td>Rose pogonia</td>
<td>T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Pteroglossaspis ecristata</em> (= <em>Eulophia ecristata</em>)</td>
<td>False coco</td>
<td>T</td>
<td></td>
<td></td>
<td>G2G3, S2</td>
</tr>
<tr>
<td><em>Remirea maritima</em>², ⁹, ¹⁰</td>
<td>Beach-star</td>
<td>E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Rhizophora mangle</em>², ⁷, ⁸</td>
<td>Red mangrove</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Scaevola plumieri</em>², ¹⁰</td>
<td>Scaevola</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Sophora tomentosa</em></td>
<td>Necklace pod</td>
<td>T</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Spiranthes laciniata</em></td>
<td>Lace-lip ladies'-tresses</td>
<td>T</td>
<td></td>
<td></td>
<td>G4, S3</td>
</tr>
<tr>
<td><em>Tephrosia angustissima var. curtissii</em></td>
<td>Narrow-leaved hoary pea; coastal hoary pea</td>
<td>FC²</td>
<td>E</td>
<td></td>
<td>G1T1, S1</td>
</tr>
<tr>
<td><em>Tillandsia utriculata</em></td>
<td>Giant wild pine; giant air plant</td>
<td>E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Tournefortia gnaphalodes</em>³</td>
<td>Sea lavender</td>
<td>E</td>
<td>T</td>
<td></td>
<td>G4, S3</td>
</tr>
<tr>
<td>(= <em>Argusia gnaphalodes</em>)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Verbena maritima</em>², ⁷, ⁹</td>
<td>Coastal vervain</td>
<td>FC²</td>
<td>E</td>
<td></td>
<td>G2, S2</td>
</tr>
<tr>
<td>(= <em>Glandularia maritima</em>)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Verbena tampensis</em>², ⁷</td>
<td>Tampa vervain</td>
<td>FC¹</td>
<td>E</td>
<td></td>
<td>G1, S1</td>
</tr>
<tr>
<td>(= <em>Glandularia tampensis</em>)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Zamia umbrosa</em>³, ⁸</td>
<td>East coast coontie</td>
<td>C</td>
<td>T</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(= <em>Zamia pumila</em>)</td>
<td></td>
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<td></td>
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</tbody>
</table>
Table 1 (continued).

<table>
<thead>
<tr>
<th>USFWS</th>
<th>FDA</th>
<th>FCREPA</th>
<th>FNAI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTALS</strong></td>
<td>FC1-1</td>
<td>E-16</td>
<td>E-1</td>
</tr>
<tr>
<td>FC2-8</td>
<td>T-11</td>
<td>T-2</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>C-5</td>
<td>SP-2</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GRAND TOTAL-38

1 E = Endangered  
T = Threatened  
SP = Special Concern  
C = Commercially Exploited

2 United States Fish and Wildlife Service. FC1 and FC2 indicate species that were formerly under consideration for listing.

3 Florida Department of Agriculture and Consumer Services (Coile 2000).

4 Florida Committee on Rare and Endangered Plants and Animals (Ward 1978).
Table 1 (continued).

5 Florida Natural Areas Inventory (Marois 1997). FNAI assigns two ranks for each element. The global element rank is based on an element’s worldwide status; the state element rank is based on the status of the element in Florida. Element ranks are based on factors including estimated number of element occurrences, estimated abundance, range, estimated adequately protected element occurrences, relative threat of destruction, and ecological fragility.

Global Element Rank:

G1 = Critically imperiled globally because of extreme rarity (5 or fewer occurrences or less than 1000 individuals) or because of extreme vulnerability to extinction due to some natural or man-made factor.

G2 = Imperiled globally because of rarity (6 to 20 occurrences or less than 3000 individuals) or because of vulnerability to extinction due to some biological or man-made factor.

G3 = Either very rare and local throughout its range (21-100 occurrences or less than 10,000 individuals), or found locally in a restricted range, or vulnerable to extinction because of other factors.

G4 = Apparently secure globally (may be rare in parts of range)

G5 = Demonstrably secure globally

G#T# = Rank of taxonomic subgroup such as subspecies or variety; numbers have same definition as above

State Element Rank:

Definitions parallel global element ranks: substitute “S” for “G” in global ranks, and “in state” for “globally” in global rank definitions.
Table 1 (continued).

6 Sites or populations identified by Poppleton (1981)

7 Sites or populations known from Kennedy Space Center Ecological Program work (1982-2002)

8 Listed in Final Environmental Impact Statement for Kennedy Space Center (NASA 1979)

9 Cape Canaveral Air Force Station sites or populations identified by Chafin et al. (1996)

10 Cape Canaveral Air Force Station sites or populations identified by Schmalzer and Oddy (1995)
Table 2. Common habitats of endangered and threatened plants of the Kennedy Space Center Area.

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Habitat</th>
<th>Population Status</th>
<th>Threats to Existence</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Amyris balsamifera</em></td>
<td>Balsam torchwood</td>
<td>Coastal hammock</td>
<td>Unknown</td>
<td>Habitat loss, fire exclusion</td>
</tr>
<tr>
<td><em>Asclepias curtisii</em>¹, ³</td>
<td>Curtiss milkweed</td>
<td>Oak scrub</td>
<td>Two small population</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Avicennia germinans</em></td>
<td>Black mangrove</td>
<td>Mangrove swamps</td>
<td>Common within habitat</td>
<td>Habitat loss, freezes</td>
</tr>
<tr>
<td><em>Calamovilfa curtisii</em>¹, ²</td>
<td>Curtiss reedgrass</td>
<td>Shallow swales in pine flatwoods</td>
<td>Several populations</td>
<td>Habitat loss, fire exclusion</td>
</tr>
<tr>
<td><em>Calopogon multiflorus</em></td>
<td>Many-flowered grass pink</td>
<td>Pine flatwoods</td>
<td>Unknown</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Chamaesyce cumulicola</em>³</td>
<td>Sand dune spurge</td>
<td>Coastal dunes, strand and scrub</td>
<td>Several small populations</td>
<td>Habitat loss, fire exclusion</td>
</tr>
<tr>
<td><em>Chrysocephyllum oliviforme</em>¹, ³</td>
<td>Satinleaf</td>
<td>Hammocks</td>
<td>Unknown</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Encylia tampensis</em></td>
<td>Butterfly orchid</td>
<td>Hammocks, hardwood swamps - epiphytic</td>
<td>Unknown</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Epidendrum canopseum</em></td>
<td>Greenfly orchid</td>
<td>Hammocks, hardwood swamps - epiphytic</td>
<td>Unknown</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Harrisella filiformis</em></td>
<td>Threadroot orchid</td>
<td>Hardwood swamps - epiphytic</td>
<td>Unknown</td>
<td>Habitat loss</td>
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<tr>
<td><em>Hexalectris spicata</em></td>
<td>Crested coralroot</td>
<td>Hammocks</td>
<td>Unknown</td>
<td>Habitat loss</td>
</tr>
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</table>
Table 2. (continued).

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Habitat</th>
<th>Population Status</th>
<th>Threats to Existence</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Lantana depressa</em> var. <em>floridana</em>²,³</td>
<td>East coast lantana</td>
<td>Coastal strand and scrub</td>
<td>Several small populations</td>
<td>Habitat loss, hybridization with <em>L. camara</em></td>
</tr>
<tr>
<td><em>Lechea cemua</em>¹,³</td>
<td>Nodding pinweed</td>
<td>Scrub openings</td>
<td>Two populations</td>
<td>Habitat loss, fire exclusion</td>
</tr>
<tr>
<td><em>Lechea divaricata</em>²</td>
<td>Pine pinweed</td>
<td>Scrub openings</td>
<td>Two small populations</td>
<td>Habitat loss, fire exclusion</td>
</tr>
<tr>
<td><em>Lilium catesbaei</em></td>
<td>Catesby lily</td>
<td>Pine flatwoods</td>
<td>Unknown</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Myrcianthes fragrans</em>¹</td>
<td>Nakedwood</td>
<td>Hammocks, coastal strand</td>
<td>Common within habitat</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Ophioglossum palmatum</em>¹,³ (= <em>Cheiroglossa palmata</em>)</td>
<td>Hand fern</td>
<td>Hammocks - epiphytic on cabbage palm</td>
<td>3 historic, 2 extant populations</td>
<td>Habitat loss, freezes</td>
</tr>
<tr>
<td><em>Opuntia stricta</em>²</td>
<td>Shell mound prickly-pear</td>
<td>Coastal dunes and strand</td>
<td>Common within habitat</td>
<td>Habitat loss, introduced insect</td>
</tr>
<tr>
<td><em>Osmunda cinnamomea</em>²</td>
<td>Cinnamon fern</td>
<td>Hardwood swamps</td>
<td>Common within habitat</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Osmunda regalis</em> var. <em>spectabilis</em>²</td>
<td>Royal fern</td>
<td>Hardwood swamps</td>
<td>Common within habitat</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Pavonia spinifex</em>³</td>
<td>Yellow hibiscus</td>
<td>Hammocks</td>
<td>Two populations</td>
<td>Unknown</td>
</tr>
<tr>
<td><em>Peclumula plumula</em> (=<em>Polypodium plumula</em>)</td>
<td>Plume polypody</td>
<td>Hammocks - epiphytic</td>
<td>Unknown</td>
<td>Habitat loss</td>
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<td><em>Peperomia humilis</em></td>
<td>Peperomia</td>
<td>Hammocks</td>
<td>Unknown</td>
<td>Habitat loss</td>
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<tr>
<td><em>Peperomia obtusifolia</em></td>
<td>Florida peperomia</td>
<td>Hammocks - epiphytic</td>
<td>Unknown</td>
<td>Habitat loss</td>
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<tr>
<td><em>Persea borbonia</em> var. <em>humilis</em>¹,²</td>
<td>Scrub bay</td>
<td>Scrub</td>
<td>A few small populations</td>
<td>Habitat loss, fire exclusion</td>
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</table>
Table 2. (continued).

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
<th>Habitat</th>
<th>Population Status</th>
<th>Threats to Existence</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Pogonia ophioglossoides</em></td>
<td>Rose pogonia</td>
<td>Marshes and wet pine flatwoods</td>
<td>Unknown</td>
<td>Habitat loss</td>
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<tr>
<td><em>Pteroglossaspis ecrisata</em> (= <em>Eulophia ecrisata</em>)</td>
<td>False coco</td>
<td>Scrub and dry flatwoods</td>
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<td><em>Remirea maritima</em> (= <em>Cyperus pedunculatus</em>)</td>
<td>Beach-star</td>
<td>Coastal dunes</td>
<td>Occasional within habitat</td>
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<td><em>Rhizophora mangle</em></td>
<td>Red mangrove</td>
<td>Mangrove swamps</td>
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<tr>
<td><em>Scaevola plumieri</em></td>
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<td><em>Sophora tomentosa</em></td>
<td>Necklace pod</td>
<td>Coastal strand and hammocks</td>
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<tr>
<td><em>Spiranthes laciniata</em></td>
<td>Lace-lip ladies'-tresses</td>
<td>Marshes</td>
<td>Unknown</td>
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<tr>
<td><em>Tephrosia angustissima var. curtissii</em></td>
<td>Narrow-leaved hoary pea; coastal hoary pea</td>
<td>Coastal dunes and strand</td>
<td>Unknown</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Tillandsia utriculata</em></td>
<td>Giant wild pine; giant air plant</td>
<td>Hammocks and hardwood swamps - epiphytic</td>
<td>Unknown</td>
<td>Exotic insect, habitat loss</td>
</tr>
<tr>
<td><em>Toumefortia gnaphalodes</em> (= <em>Argusia gnaphalodes</em>)</td>
<td>Sea lavender</td>
<td>Coastal dunes</td>
<td>Possibly extirpated</td>
<td>Habitat loss, freezes</td>
</tr>
</tbody>
</table>

18
Table 2 (continued).

<table>
<thead>
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<th>Scientific Name</th>
<th>Common Name</th>
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<th>Population Status</th>
<th>Threats to Existence</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Verbena maritima</em>(^1, 2, 3) (= <em>Glandularia maritima</em>)</td>
<td>Coastal vervain</td>
<td>Coastal dunes and strand - openings</td>
<td>Common within habitat</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Verbena tampensis</em>(^1, 2) (= <em>Glandularia tampensis</em>)</td>
<td>Tampa vervain</td>
<td>Edge of hammocks</td>
<td>A few small populations</td>
<td>Habitat loss</td>
</tr>
<tr>
<td><em>Zamia umbrosa</em>(^1) (= <em>Zamia pumila</em>)</td>
<td>East coast coontie</td>
<td>Hammocks</td>
<td>Ca. 100 plants</td>
<td>Habitat loss, collection</td>
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</tbody>
</table>

\(^1\) Sites or populations identified by Poppleton (1981)

\(^2\) Sites or populations identified by Kennedy Space Center Ecological Program (1982-2002) (Schmalzer and Hinkle 1990, Schmalzer et al. 1999, Schmalzer unpublished)

\(^3\) Sites or populations identified by Chafin et al. (1996)
Sensitive Plants on KSC, CCAFS, and CNS

Figure 1. Locations of selected sensitive species in the Kennedy Space Center area.
to the list as well. Some of these are native species (e.g., *Chamaesyce cumulicola*, *Lechea divaricata*) identified by new collections. Other additions (e.g., *Lygodium microphyllum*, *Senna pendula var. glabrata*) are invasive exotics whose ranges have expanded into the KSC area.

The KSC area flora exceeds that reported by Herwitz and Wunderlin (1990) for Cayo-Costa and Sanibel Islands in southwest Florida. The Merritt Island-Cape Canaveral barrier island complex has greater area than those islands. In addition, the northern portion of Merritt Island connects to the mainland and is not truly insular. Both of these factors would be expected to increase the size of the flora.

We term this flora as being of the KSC area deliberately. Not all these species may occur within the political boundaries of the Space Center or on adjacent federal properties (Cape Canaveral Air Force Station, Canaveral National Seashore). Location information from the herbarium specimens on which the list was based would have to be added to the database in order to determine occurrence within these boundaries.

There is a substantial introduced element to the flora. This appears to be related in part to past disturbance from agricultural activities, old home sites, and other landscape modifications. Only some of these species have become naturalized. Forty-one of these exotic species are considered invasive (26-Category I, 15 Category II). *Schinus terebinthifolius* (Brazilian pepper) is most prominent on the KSC landscape, but *Casuarina cf. equisetifolia* (Australian pine) and *Melaleuca quinquenervia* are locally abundant. These three species are among the most common and damaging invasive exotic plants in Florida (Schmitz et al. 1997). Although *Imperata cylindrica* (cogongrass) was recorded on KSC in the original floristic surveys, recently it has
spread into sites where it had not previously occurred. Cogongrass has the potential to invade upland communities and disrupt natural fire regimes (Lippincott 2000). Also of concern is the appearance of two new invasive species on the KSC landscape: *Lygodium microphyllum* (Old World climbing fern) and *Senna pendula* var. *glabrata* (valamuerto). Old world climbing fern is well established in south Florida and can cover native trees (Schmitz et al. 1997).

The number of taxa endemic or near endemic to Florida (50) reported here is higher than expected from Muller et al. (1989). The flora of the east coast of Florida is considered lower in endemics than the southern tip of the peninsula, the Central Ridge, or the lower Apalachicola River Basin (Muller et al. 1989); the data for KSC agree with the suggestion that coastal Florida be considered a fourth region of endemism within the state.

The lichen flora of KSC does not appear to have been studied. Two lichens are listed by the Florida Natural Areas Inventory (Marois 1997), and one (*Cladonia perforata*) is listed as endangered (Coile 2000). Brevard County, however, is not within the known range of this lichen. Thompson (1989) noted many rare lichens in an outlier of pine-oak scrub in Georgia. Frequent fire negatively impacts lichens and other cryptograms which recover slowly (Miller 1990).

**Threatened and Endangered Plants**

The number (38) of threatened and endangered plants has decreased from the last comprehensive list (Schmalzer and Hinkle 1990). The decreases are mainly from changes in state lists of species of concern. Some species on previous lists for KSC are no longer included. *Conradina grandiflora* occurs on the mainland of Brevard.
County (Schmalzer et al. 1999) but years of fieldwork in scrub indicate that it is absent from Merritt Island and Cape Canaveral. Cereus eriphorus var. fragrans (now Harrisia fragrans) was reported from KSC (Poppleton 1981) based on a misidentification (Ann Johnson, FNAI, personal communication). Cereus gracilis var. simpsonii (now Harrisia simpsonii) once occurred at Turtle Mound (Norman 1976) but was eliminated by freezes (Norman and Hawley 1995) and now reaches its northern limits in south Brevard County (Johnson et al. 1990, Schmalzer et al. 1999). The status of some other species is uncertain. Poppleton (1981) reported that the one known population of Toumefortia (= Argusia) gnaphalodes was eliminated by a freeze in 1977.

Endangered and threatened plants occur in various habitats including coastal dunes, coastal strand, scrub, pine flatwoods, hammocks, hardwood swamps, marshes, and mangrove swamps. It is evident that hammocks and hardwood swamps have a high concentration of threatened and endangered plants, especially since these communities make up a relatively small proportion of the total vegetation of KSC (Provanch et al. 1986). Whittier and Miller (1976) noted the importance of hammocks to the bryophyte flora.

Detailed information on locations and population status of listed taxa is available only for those studied by Poppleton (1981), Johnson (1993), Chafin et al. (1996), or encountered in fieldwork related to long-term environmental monitoring and research at KSC. For most of these plants, there are insufficient data to determine how important KSC is to their regional or global survival. The protected areas within KSC and adjacent federal properties are important remaining habitat for native flora within the area. For Calamovilfa curtissii (Curtiss's reedgrass), KSC supports the largest populations in
public ownership and nearly the only confirmed populations on the east coast of Florida (Johnson and Blyth 1988, Johnson 1993); other known populations are in the Florida panhandle. Thus, proper management of areas containing this grass are important to its survival.

The major threat to the continued existence of most of these endangered and threatened plants throughout their range is habitat destruction. Several other threats exist. Many hammock species, especially epiphytes, are sensitive to fire. On the other hand, some scrub and flatwood species decline if fire is excluded for too long from those communities. Collection of horticulturally interesting plants such as orchids, bromeliads, and *Ophioglossum palmatum* (hand fern) is a problem in some parts of the state and could occur on KSC outside of the security zone. Rooting by feral hogs is a threat to terrestrial herbs, especially those of hammocks, but the extent of hog damage to these species locally is not known. Invasion of exotic plants, for example Brazilian pepper, displaces native species from hammocks and marshes.

Summary

1. The vascular flora of the Kennedy Space Center area is approximately 1024 species of which 803 are native and 221 are introduced. This appears to be a substantial fraction of the regional flora. Additional work is needed to incorporate location information on occurrences of these species into the database.

2. Fifty taxa in the KSC area vascular flora are endemic to Florida. Thirty-eight taxa are listed on state lists of threatened and endangered plants. For many of the listed taxa, current information is needed on location and population status. For
some taxa (e.g., *Calamovilfa curtissii*), populations within KSC appear important to their regional and global survival.

3. The bryophyte flora consists of 43 taxa, 23 mosses and 20 liverworts and hornworts. The lichen flora is currently unknown. Since rarity among lichens is now being recognized, consideration should be given to documenting the lichen flora.
Literature Cited


Lippincott, C.L. 2000. Effects of Imperata cylindrical (L.) Beauv. (cogongrass) invasion on fire regime in Florida sandhill (USA). Natural Areas Journal 20:140-149


Schmalzer, P.A. and D.M. Oddy. 1995. Survey for Remirea maritima (Beach star) and Scaevola plumieri (Inkberry) at Cape Canaveral Air Station. Prepared for Canaveral Port Authority. Dynamac Corporation, Kennedy Space Center, Florida. 15 p.


## Appendix I. Vascular flora of the Kennedy Space Center area.

<table>
<thead>
<tr>
<th>Class</th>
<th>Family</th>
<th>Genus</th>
<th>Species</th>
<th>Variety</th>
<th>Authority</th>
</tr>
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¹p = Pteridophyte (ferns and fern allies), g = Gymnosperm, a = Angiosperm
Appendix II. Introduced plants in the Kennedy Space Center area flora.

**Pteridophytes**

Nephrolepidaceae  
*Nephrolepis cordifolia* (L.) Presl  EPPC-CI

Schizaeaceae  
*Lygodium microphyllum* (Cav.) R. Br.  EPPC-CI

**Gymnosperms**

Podocarpaceae  
*Podocarpus macrophyllus* D. Don var. *maki* Endl.  
*Podocarpus nagi* Makino

Zamiaceae  
*Cycas revoluta* Thunb.

**Angiosperms**

Acanthaceae  
*Asystasia gangetica* (L.) T. Anders EPPC-CII  
*Justicia brandegeana* Wassh. & L.B. Smith  
*Odontonema tubiforme* (Bertol.) Kuntze  
*Ruellia brittoniana* Leonard ex Fern.  EPPC-CI  
*Thunbergia alata* Bojer ex Sims  
*Thunbergia fragrans* Roxb.

Agavaceae  
*Agave decipiens* Baker  
*Agave sisalana* Perrine  EPPC-CII  
*Sansevieria hyacinthoides* (L.) Druce  EPPC-CII  
*Yucca aloifolia* L.

Amaranthaceae  
*Alternanthera philoxeroides* (Mart.) Griesb. EPPC-CII  
*Amaranthus hybridus* L.  
*Gomphrena serrata* L.

Amaryllidaceae  
*Crinum bulbispermum* (Burman) Milne-Redhead & Schweickt
Appendix II (continued)

Anacardiaceae
  *Mangifera indica* L.
  *Schinus terebinthifolius* Raddi EPPC-CI

Apiaceae
  *Cyclospermum leptophyllum* (Pers.) Sprague ex Britton & Wilson

Apocynaceae
  *Allamanda cathartica* L.
  *Carissa macrocarpa* (Eckl.) A. DC.
  *Catharanthus roseus* (L.) G. Don
  *Nerium oleander* L.
  *Tabernaemontana divaricata* (L.) R. Br.
  *Thevetia peruviana* (Pers.) Schum.
  *Vinca minor* L.

Araceae
  *Colocasia esculentum* (L.) Schott EPPC-CI
  *Pistia stratiotes* L. EPPC-CI
  *Syngonium podophyllum* Schott EPPC-CI

Araliaceae
  *Tetrapanax papyriferus* (Hook.) C. Koch

Arecaceae
  *Arecastrum ramanzoffianum* Becc.
  *Cocos nucifera* L.
  *Phoenix canariensis* Chabaud
  *Phoenix dactylifera* L.
  *Phoenix reclinata* L. EPPC-CII
  *Phoenix sylvestris* Roxb.
  *Washingtonia robusta* Wendl.

Aristolochiaceae
  *Aristolochia littoralis* Parodi

Asclepiadaceae
  *Morrenia odorata* (Hook. & Arn.) Lindl.

Asteraceae
  *Emilia fosbergii* Nichols.
  *Helianthus annuus* L.
  *Pseudogynoxys chenopodioides* Kunth
  *Sonchus asper* (L.) Hill
Appendix II (continued)

**Asteraceae**
- *Sonchus oleraceus* L.
- *Wedelia trilobata* (L.) Hitchc. EPPC-CII
- *Youngia japonica* (L.) DC.

**Bignoniaceae**
- *Jacaranda acutifolia* Humb. & Bonpl.
- *Kigelia pinnata* DC.
- *Podranea ricasoliana* (Tanfani) Sprague
- *Pyrostegia venusta* (Ker-Gaw.) Miers.
- *Spathodea campanulata* Beauv.
- *Tecoma capensis* (Thunb.) Lindl.
- *Tecoma stans* (L.) Juss.

**Brassicaceae**
- *Raphanus raphanistrum* L.

**Buddlejaceae**
- *Buddleja madagascariensis* Lam.

**Cactaceae**
- *Hylocereus undatus* (Haw.) Britton & Rose
- *Opuntia cochenillifera* (L.) Mill.
- *Pereskia aculeata* Mill.
- *Selenicereus pteranthus* (Link & Otto) Britton & Rose

**Cannaceae**
- *Canna x generalis* Bailey

**Caprifoliaceae**
- *Lonicera japonica* Thunb. EPPC-CI

**Caricaceae**
- *Carica papaya* L.

**Caryophyllaceae**
- *Stellaria media* (L.) Cyrillo

**Casuarinaceae**
- *Casuarina cunninghamiana* Miq. EPPC-CII
- *Casuarina equisetifolia* L. ex J.R. Forst. & G. Forst. EPPC-CI
- *Casuarina glauca* Sieb. ex Spreng. EPPC-CI
Appendix II (continued)

Ceratophyllaceae
   *Ceratophyllum muricatum* Cham.

Chenopodiaceae
   *Chenopodium ambrosioides* L.
   *Salsola kali* L.

Combretaceae
   *Quisqualis indica* L.

Commelinaceae
   *Murdannia nudiflora* (L.) Brenan
   *Tradescantia zebrina* Bosse.

Convolvulaceae
   *Ipomoea cairica* (L.) Sweet
   *Ipomoea hederacea* Jacq.
   *Ipomoea purpurea* (L.) Roth.
   *Merremia dissecta* (Jacq.) Hall. f.

Crassulaceae
   *Kalanchoe daigremontiana* Ham. & Perr.
   *Kalanchoe fedtschenkoi* Ham. & Perr.
   *Kalanchoe pinnata* (Lam.) Pers.
   *Kalonche tubiflora* (Harv.) Ham.

Cucurbitaceae
   *Citrullus lanatus* (Thunb.) Mats. & Nakai.
   *Momordica charantia* L.

Cyperaceae
   *Bulbostylis barbata* (Rottb.) Clarke
   *Cyperus esculentus* L.
   *Kyllinga brevifolia* Rottb.

Dioscoreaceae
   *Dioscorea bulbifera* L. EPPC-Cl

Ebenaceae
   *Diospyros kaki* L. f.
Appendix II (continued)

Euphorbiaceae

*Jatropha curcas* L.
*Phyllanthus tenellus* Roxb.
*Ricinus communis* L. EPPC-CII
*Sapium sebiferum* (L.) Roxb. EPPC-CI

Fabaceae

*Abrus precatorius* L. EPPC-CI
*Albizia julibrissin* Durazz. EPPC-CI
*Albizia lebbeck* (L.) Benth. EPPC-CI
*Alysicarpus ovalifolius* (Shum. & Thonn.) J. Leonard
*Bauhinia variegata* L. EPPC-CI
*Crotalaria lanceolata* E. Mey.
*Crotalaria pallida* Aiton
*Crotalaria retusa* L.
*Crotalaria spectabilis* Roth
*Desmodium tortuosum* (Sw.) DC.
*Desmodium triflorum* (L.) DC.
*Enterolobium contortisiliquum* (Vell.) Morong
*Indigofera hirsuta* Harv.
*Indigofera spicata* Forsk.
*Indigofera suffruticosa* L.
*Kummerowia striata* (Thunb.) Schindler
*Leucaena leucocephala* (Lam.) de Wit. EPPC-CII
*Macroptilium lathyroides* (L.) Urban
*Medicago lupulina* L.
*Melilotus alba* Desr.
*Melilotus indica* (L.) All.
*Parkinsonia aculeata* L.
*Senna alata* (L.) Roxb.
*Senna occidentalis* (L.) Link
*Senna pendula* (Humb. & Bonpl. ex Willd.) H.S. Irwin & Barneby var. *glabrata* (Vogel)
H.S. Irwin & Barneby EPPC-CI
*Sesbania punicea* (Cav.) Benth. EPPC-CII
*Wisteria sinensis* (Sims) Sweet

Geraniaceae

*Pelargonium hortorum* Bailey

Iridaceae

*Gladiolus x gandavensis* Van Houtte
Appendix II (continued)

Juglandaceae
Carya illinoensis (Wang.) K. Koch

Lamiaceae
Hyptis mutabilis (A. Rich.) Briq.
Mentha sp.
Prunella vulgaris L.

Lauraceae
Cinnamomum camphora (L.) Nees & Eberm. EPPC-CI
Persea americana Mill.

Liliaceae
Asparagus setaceus (Kunth) Jessop
Lilium longiflorum Thunb.

Lythraceae
Lagerstroemia indica L.

Malvaceae
Hibiscus rosa-sinensis L.
Hibiscus rosa-sinensis L. var. schizopetalus Dyer.
Hibiscus tiliaceus L. EPPC-CII
Malvastrum coromandelianum (L.) Garcke
Malvaviscus arboreus Cav. var. drummondii Schery.
Sida cordifolia L.

Meliaceae
Melia azedarach L.

Moraceae
Broussonetia papyrifera (L.) Vent. EPPC-CII
Ficus carica L.
Ficus elastica Roxb.
Maclura pomifera (Raf.) Schneid.
Morus alba L.

Musaceae
Musa x paradisiaca L.
Appendix II (continued)

Myrtaceae
+Eucalyptus robusta Smith
+Eugenia uniflora Smith EPPC-CI
+Melaleuca quinquenervia (Cav.) Blake EPPC-CI
+Psidium cattleianum Sabine EPPC-CI
+Psidium guajava L. EPPC-CI
+Syzygium cumini (L.) Skeels EPPC-CI
+Syzygium jambos (L.) Alston EPPC-CII

Nyctaginaceae
+Bouganvillea glabra Choisy
+Mirabilis jalapa L.

Oleaceae
+Jasminum sambac Ait. EPPC-CII
+Ligustrum japonicum Thunb. EPPC-CI
+Olea europeae L.

Onagraceae
+Ludwigia peruviana (L.) Hara

Orchidaceae
+Zeuxine strateumatica (L.) Schltr.

Phytolaccaceae
+Agdestis clematidea Moc. & Sesse.

Plantaginaceae
+Plantago lanceolata L.

Plumbaginaceae
+Plumbago auriculata Lam.

Poaceae
+Arundo donax L.
+Bambusa multiplex (Lour.) Raeusch
+Bambusa vulgaris Schrad. ex J.C. Wendl.
+Cynodon dactylon (L.) Pers.
+Dactyloctenium aegyptium (L.) Beauv.
+Echinochloa colonum (L.) Link
+Echinochloa crusgalli (L.) Beauv.
+Eleusine indica (L.) Gaertn.
+Eragrostis ciliaris (L.) R. Br.
+Eremochloa ophiuroides (Munro) Hack.
Appendix II (continued)

Poaceae
  *Imperata cylindrica* (L.) Beauv. EPPC-CI
  *Panicum maximum* Jacq.
  *Panicum repens* L. EPPC-CI
  *Paspalum notatum* Flugge var. *saurae* Parodi
  *Paspalum urvillei* Steud.
  *Pennisetum purpureum* Schum. EPPC-CI
  *Polypogon monspeliensis* (L.) Desf.
  *Rhynchelytrum repens* (Willd.) C.E. Hubb. EPPC-CII
  *Sorghum bicolor* (L.) Moench
  *Sorghum halepense* (L.) Pers.
  *Sporobolus indicus* (L.) R. Br.
  *Urochloa fasciculata* (Sw.) R.D. Webster
  *Urochloa mutica* (Forssk.) R.D. Webster EPPC-CI
  *Urochloa subquadripes* (Trin.) R.D. Webster
  *Zea mays* L.
  *Zoysia matrella* (L.) Merr. var. *tenuifolia* (Willd. ex Thiele) Sasaki

Polemoniaceae
  *Phlox drummondii* Hook.

Polygonaceae
  *Antigonon leptopus* Hook. & Arn. EPPC-CII
  *Polygonum persicaria* L.
  *Rumex pulcher* L.

Pontederiaceae
  *Eichhornia crassipes* (Mart.) Solms EPPC-CI

Proteaceae
  *Grevillea robusta* A. Cunn.

Rosaceae
  *Eriobotrya japonica* Lindl.
  *Prunus persica* (L.) Batsch
  *Pyrus communis* L.

Rubiaceae
  *Hedyotis corymbosa* (L.) Lam.
  *Richardia brasiliensis* (Moq.) Gomez
  *Spermacoce verticillata* L.
Appendix II (continued)

**Rutaceae**
- *Citrus aurantium* L.
- *Citrus reticulata* Blanco
- *Citrus sinensis* (L.) Osbeck
- *Citrus x paradisi* Macf.

**Salicaceae**
- *Salix babylonica* L.

**Sapindaceae**
- *Koelreuteria elegans* (Seemann) A.C. Sm.
- *Litchi chinensis* Sonn.

**Scrophulariaceae**
- *Russellia equisetiformis* Schlecht. & Cham.

**Solanaceae**
- *Cestrum noctumum* L.
- *Solanum seaforthianum* Andr.

**Sterculiaceae**
- *Dombeya wallichii* D. Jackson

**Verbenaceae**
- *Clerodendrum indicum* (L.) Kuntze
- *Clerodendrum speciosum* D'Ombrain
- *Lantana camara* L. EPPC-CI
- *Lantana montevidensis* (Spreng.) Briq.
- *Vitex trifolia* L.

**Xyridaceae**

**Zingiberaceae**

**Zygophyllaceae**
- *Tribulus cistoides* L.
- *Tribulus terrestris* L.
Appendix III. Plants endemic or nearly endemic to Florida occurring in the Kennedy Space Center area flora.

**Gymnosperms**

Pinaceae

*Pinus clausa* (Chapm. ex Engelm.) Vasey ex Sarg.
*Pinus elliottii* Engelm. var. *densa* Little & Dorman

**Angiosperms**

Amaryllidaceae

*Hymenocallis palmeri* S. Wats.

Annonaceae

*Asimina obovata* (Willd.) Nash
*Asimina reticulata* Chapm.

Asclepiadaceae

*Asclepias curtissii* A. Gray

Asteraceae

*Amoglossum floridanum* (A. Gray) H. Rob.
*Berlandiera subacaulis* (Nutt.) Nutt.
*Chrysopsis subulata* Small
*Coreopsis leavenworthii* T. & G.
*Eupatorium mikanioides* Chapm.
*Helianthus debilis* Nutt.
*Hieracium megacephalum* Nash
*Liatris tenuifolia* Nutt. var. *quadrifolia* Chapm.
*Palafoxia feayi* A. Gray
*Palafoxia integrifolia* (Nutt.) T. & G.
*Phoebanthus grandiflora* (T. & G.) Blake
*Pluchea longifolia* Nash
*Solidago odora* Ait. var. *chapmanii* (A. Gray) Cronq.

Brassicaceae

*Rorippa floridana* Al-Shehbaz & Rollins

Bromeliaceae

*Tillandsia simulata* Small

Cactaceae

*Harrisa simpsonii* Small ex Britton & Rose
Appendix III (continued)

Campanulaceae
  *Campanula floridana* S. Wats.
  *Lobelia feayana* A. Gray

Cistaceae
  *Helianthemum nashii* Britt.
  *Lechea cemua* Small
  *Lechea divaricata* Shuttlew. ex Britton

Commelinaceae
  *Cuthbertia ornata* Small

Cyperaceae
  *Rhynchospora intermedia* (Chapm.) Britt.

Euphobiaceae
  *Chamaesyce cumulicola* Small

Fabaceae
  *Rhynchosia cinerea* Nash
  *Tephrosia angustissima* Shuttlew. ex Chapm. var. *curtissii* (Small ex Rydb.) Isely
  *Vicia floridana* S. Wats.

Juglandaceae
  *Carya floridana* Sarg.

Lamiaceae
  *Conradina grandiflora* Small
  *Piloblephis rigida* (Batr. ex Benth.) Raf.

Lauraceae
  *Persea borbonia* (L.) Spreng. var. *humilis* (Nash) Koop

Poaceae
  *Andropogon brachystachyus* Chapm.
  *Andropogon floridanus* Scribn.
  *Andropogon longiberbis* Hack.
  *Aristida patula* Chapm. ex Nash
  *Calamovilfa curtissii* (Vasey) Scribn.
  *Dicanthelium ensifolium* (Bald. ex Ell.) Gould var. *breve* (Hitchc. & Chase) Hansen & Wunderlin
Appendix III (continued)

Polygalaceae
  *Polygala rugelii* Shuttlew.

Polygonaceae
  *Polygonella ciliata* Meisn.

Ranunculaceae
  *Clematis baldwinii* T. & G.

Scrophulariaceae
  *Micranthemum glomeratum* (Chapm.) Shinners

Verbenaceae
  *Glandularia maritima* (Small) Small
  *Glandularia tampensis* (Nash) Small
Appendix IV. Bryophytes of the Kennedy Space Center area (Whittier and Miller 1975).

**Musci**

*Amblystegium serpens* (Hedw.) B.S.G. var. *juratzkanum* (Schimp.) Ren. & Card.
*Amblystegium varium* (Hedw.) Lindb.
*Anomodon rostratus* (Hedw.) Schimp.
*Barbula cruegeri* Sond. ex C. Muell.
*Brachymenium ?systylium* (C. Meull.) Jaeg. & Sauerb.
*Bryum argenteum* Hedw.
*Bryum ?capillare* Hedw.
*Desmatodon sprengeli* (Schw.) Williams
*Entodon macropodus* (Hedw.) C. Meull.
*Fissidens garberi* Lesq. & James
*Forsstroemia trichomitria* (Hedw.) Lindb.
*Haplocladium microphyllum* (Hedw.) Broth.
*Isoterygium micans* (Sw.) Broth.
*Leucobryum albidum* (P. Beauv.) Lindb.
*Octoblepharum albidum* Hedw.
*Oxyrrhynchium hians* (Hedw.) Loesk.
*Papillaria nigrescens* (Hedw.) Jaeg. & Sauerb.
*Rhynchostegium serrulatum* (Hedw.) Jaeg.
*Sematophyllum adanatum* (Michx.) E.G. Britt.
*Sphagnum strictum* Sull.
*Syrrhopodon texanus* Sull.
*Thuidium recognitum* (Hedw.) Lindb. var. *delicatum* (Hedw.) Warnst

**Hepaticae and Anthocerotae**

*Anthoceros carolinianus* Michx.
*Cololejeunea cardiocarpa* (Mont.) Steph.
*Frullania kunzei* (Lehm. & Lindenb.) Lehm. & Lindenb.
*Frullania squarrosa* (R.B.N.) Nees
*Lejeunea cf. cladogyna* Evans
*Lejeunea flava* (Sw.) Evans
*Lejeunea floridana* Evans
*Lejeunea laetevirens* Nees & Mont.
*Lejeunea minutiloba* Evans
*Lophocolea martiana* Nees
*Odontoschisma denudatum* (Nees) Dum.
*Odontoschisma prostratum* (Sw.) Trev.
*Pallavicinia iyelli* (Hook.) S.F. Gray
*Radula australis* Aust.
*Radula obconica* Sull.
Appendix IV (continued)

Hepaticae and Anthocerotae

Rectolejeunea maxonii Evans
Riccardia multifida (L.) S.F. Gray
Riccia aff. fluitans L.
Telaranea nematodes (Aust.) Howe
The vascular flora of the Kennedy Space Center (KSC) area was first studied in the 1970's (Sweet 1976, Poppleton et al. 1977), and the list was revised in 1990 (Schmalzer and Hinkle 1990). Nomenclatural and taxonomic changes as well as additional collections required a revision of this list. The revised list includes 1024 taxa of which 803 are native and 221 are introduced. This appears to be a substantial proportion of the regional flora. Fifty taxa are endemic or nearly endemic, a level of endemism that appears high for the east coast of Florida. Of the 221 introduced plants, twenty-six are Category I invasive exotics and fifteen are Category II invasive exotics. Thirty-eight taxa are listed as threatened, endangered, or of special concern on state lists. For some of these taxa, populations on KSC appear to be important for their regional and global survival. The bryophyte flora of the KSC area includes 23 mosses and 20 liverworts and hornworts (Whittier and Miller 1976). The lichen flora is currently unknown.