



# The Drifting Seed

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## THE DRIFTING SEED

A triannual newsletter covering seeds and fruits dispersed by tropical currents  
and the people who collect and study them.

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**Elaine Norton, Columnist**

**Klaas Post, Columnist**

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The 13th Annual International Sea Bean Symposium will be held at the Cocoa Beach Public Library,  
October 17th-18th, 2008.

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For Newsletter Subscription Information, Submissions, Donations,  
For Seed Identification:

contact: **Ed Perry**, P.O. Box 510366  
Melbourne Beach, FL 32951—USA

E-mail: [seabean@seabean.com](mailto:seabean@seabean.com) (Paul Mikkelsen)  
or [Seaheart88@aol.com](mailto:Seaheart88@aol.com) (Ed Perry)

## Pine Cones from the North Sea Bottom

by Gerhard C. Cadée (Royal Neth. Inst Sea Res, Den Burg NL, [cadee@nioz.nl](mailto:cadee@nioz.nl))  
& Klaas Post (Natural History Museum of Rotterdam NL)

The bottom of the Southern North Sea is one of the best places in the world to collect bones of the Pleistocene mammoth and other fossil mammals (Mol et al., 2008). Systematic collecting of these bones was started by Kortenbout van der Sluijs of the Geological Museum in Leiden (now Naturalis) around 1965, when the fishery began to use beam-trawls. This fishing method proved to be very useful to collect fossil bones and the fisherman were encouraged not to throw this bycatch away. Private collectors and scientists from the National Natural History Museum (Naturalis) Leiden and the Natural History Museum of Rotterdam alike have assembled huge and important collections.

Among these bones sometimes also fruits and seeds are collected, and the first idea was that they also might be fossils. The fruits and seeds collected by fisherman from the North Sea up to now include palm seeds of *Attalea* sp. and the ivory palm *Phytelephas* sp. (Cadée, 1988; Brochard & Cadée, 2005). These palm seeds cannot drift. In former ages, they were regularly transported to The Netherlands (Rijkelijhuizen & Wijngaarden-Bakker, 2006). Some *Attalea* seeds (identified as *Orbignya*, but pertaining to the same palmseeds) have been recovered from ship wrecks (Kuijper & Manders, 2003). Those dredged from the North Sea might be also from shipwrecks. Nuts of the ivory palm were imported in Europe to be used as vegetable ivory i.e. for the manufacturing of buttons. They are still imported in small quantities. There is a small market for vegetable ivory as ivory from elephants may not be used any more, but buttons have been largely replaced now by plastic ones.

Recently the Natural History Museum of Rotterdam collected some pine cones from the North Sea bottom. These also were found together with fossil bones, leaving the possibilities of a fossil origin. However, they could be identified to belong to the Monterey pine *Pinus radiata* (Fig. 1) and *Pinus nigra* and are recent. Both cones are also regularly found in drift on the Dutch coast (Cadée et al., 2002; Brochard & Cadée, 2005). The Monterey pine originates from California, but is now cultivated all over the world for timber production. Apparently the Netherlands are too cold for this species, the nearest place where it grows is along the (warmer) southern coast of England. *P. radiata* cones arriving on our coast must originate from there or from other southern European coasts. The only pine that grew originally in the Netherlands was *P. sylvestris*. This species disappeared in the Late Middle ages but was re-introduced in the 16<sup>th</sup> century (Van der Meijden, 2005). For timber production in the Netherlands a couple of other pine species have been introduced later as well. *P. nigra* is most commonly used in the dune area of the Netherlands. Its cones are of the same size as those of *P. sylvestris* but the end-plate of the scales *P. nigra* are convex; those of *P. sylvestris* are flat or concave. The cone from the North Sea bottom – as well as those from the Dutch beach - belongs to *P. nigra*, which indicates it to be recent as well.

It is well known that not all drifting plant material ends up on coasts. Wolff (1979) gives an excellent overview of plant material dredged from the deep sea including drift seeds and fruits. Gunn & Dennis (1976) report some 20 species of tropical drift seeds and fruits from deep sea dredge samples and Horikoshi & Tsuchida (1984) report a mytilid bivalve *Adipicola longissima* found attached only to *Nypa* fruits on the deep sea bottom. The presence of these recent pine cones on the North Sea bottom therefore is no surprise. Such specific encrusters are not to be expected in the shallow North Sea. One *P. radiata* cone had a worm *Sabellaria spinulosa* and a bryozoan *Aspidelectra melolontha* growing on it. These are subtidal encrusters not typical for drifting material, so indicating the cone to be exposed for some time on the sea bottom.



Fig. 1. A Monterey pine (*Pinus radiata*) cone from the North Sea bottom, Length 11.2 cm.

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### **Tropical Storm Fay leaves One-day Bonanza on Fort Lauderdale Beach**

by Elaine Norton, Fort Lauderdale, Florida

As all of us in Florida have felt the effects of Tropical Storm Fay during the week of August 17<sup>th</sup>, 2008 (some much worse than others), the weather event turned out to be a one-day bonanza for this gal !!

On Monday evening, August 18<sup>th</sup>, T.S. Fay was slowly making her way east across the southern part of the peninsula (after the 2<sup>nd</sup> of 4 landfalls). Since Fay was not predicted to become a hurricane nor predicted to bring any substantial damage, the only real thoughts on my mind were to shut down the office, get provisions, close the hurricane shutters, hope the power stayed on, and pray for seabean. Waiting patiently through the night & during the next day until the "tornado warning" was dropped for Fort Lauderdale at 4pm on Tuesday, the 19<sup>th</sup>, I knew I had one chance, and one chance only to retrieve any beans before dark that night, which the storm may have left behind. That "one chance" is because the City of Fort Lauderdale's "Scraper Plow" would be sure to remove any wrack that washed ashore the next morning during its routine 7-to 8-am mission to make our beautiful beaches pristine (a regular inconvenience for this Southeast Florida Drifter, which I have noted to you before).

When I got down to the beach, it was still sprinkling slightly as the storm's trailing feeder bands were moving directly from south to north, the winds were sustained at about 25 mph, with gusts up to 40, and the southerly winds were quickly blowing sand over the weed and any possible beans. Time was of the essence.

With my "Mucuna Entada" bag filled with a water bottle, ziplocs and a towel, I walked as quickly as possible in a zig-zag fashion, and was able to cover almost all of the 2 mile distance between Oakland Park Boulevard north to the Lauderdale-By-The-Sea Pier in front of the hi-rise condos, gleefully picking up beans that hadn't already been covered by the ever increasing blown sand. While within ¼ mile of the pier, I encountered a girl heading south towards me, briskly walking

and also picking up beans. When we crossed paths she asked “*What are you picking up?*” I reluctantly showed her the hamburger bean that was in my hand and she stated quite firmly in a loud voice “*THIS IS MY AREA !!.*” I was somewhat miffed by her abruptness and she really seemed to be blocking my forward motion. Not wanting to get into any altercation, I reluctantly acquiesced, turned back south and made my way in the other direction. I’d show her. I would walk faster and go another mile beyond my starting point and continue on towards Sunrise Boulevard before it got too dark. Unfortunately, I was now walking against the wind, was getting sand-burned and was having a hard time seeing, but I continued on and found a few more beans during my quest.

I saw some sad sights along the way....dead baby turtles....broken turtle eggs....and even a dead bird. I buried the baby turtles & bird, and re-staked the caution tapes that had fallen down around the turtle nests as I trekked back.

After a storm that caused minimal damage down here in South Florida, and unfortunately, substantial damage from flooding to my friends up on the Space Coast because of Fay’s stationary position up there for over 3 days, I ended up with a one-day (4-1/2 hour) record count bean bonanza. Here is the result of my findings:

- 69 Mucunas (39 sloanei, 28 urens, 2 thick-banded)
- 8 Diocleas
- 1 black seabiscuit bean (rare down here...my 3<sup>rd</sup> ever found)
- 17 Seahearts
- 13 Starnut palms
- 6 Jamaican naval spurges
- 1 Antidote vine seed (large)
- 4 Prickly palms
- 2 Gray nickarnuts
- 1 Lantern tree seed (my 2<sup>nd</sup> ever found)
- 1 Black pearl
- 3 Nutmegs
- 2 Moonflower seeds
- 3 Kapok thorns
- 1 Unidentified bean
- 1 Container tag (for Curt)
- Assorted pumice
- .44 cents of beach coinage



Total drift seeds collected was 132 (see photo), which excludes the following 18 mentally-noted additional species identified along the way, which I don’t really like to gather and did not pick up. Those forsaken identified species were Australian pinecones, bald cypress tree seeds, blister pods, coconuts (many sizes & pieces), coin vine seeds (large quantities), ivory-nut palm seeds, sea coconuts, laurelwoods, manchineel seeds, mahoe seeds, mahogany seeds, mango seeds, red mangrove (large quantities), black mangrove, white mangrove, screw pine seeds, sea-grapes and tropical almonds. There was a lot of “garbage” and plastic flotsam on the beach, but in my quest to collect as many beans as possible before dark, I really didn’t have a lot of time to investigate those items.

I am feeling quite trilled about my bonanza, and as noted from the *World Guide to Tropical Drift Seeds* by Gunn & Dennis, southeastern Florida (between Miami Beach & Palm Beach) is one of the

best areas to find drift seeds, (with all due respect to my Brevard County beaner brethren) because of the Florida Current's proximity (a well-defined component of the Gulfstream system), whose inner edge at times flows within a mile or two of the coastline. Add a little tropical disturbance and *Vwa La!!* If only I didn't have to work and there were no scrapers every morning.....

### A World of Drift Seeds

by Carol J. Sullivan, John Williams and Gerald Sullivan

[carolsully@yahoo.com](mailto:carolsully@yahoo.com), [williams@utmsi.utexas.edu](mailto:williams@utmsi.utexas.edu), [geraldsully@yahoo.com](mailto:geraldsully@yahoo.com)

Traditionally, it has been accepted that the world of drift seeds constitutes approximately 0.1% of the estimated 250,000 terrestrial species of plants, ergo 250. A limited canvass of the literature strongly suggests that the total number of different drift seeds far exceeds that number.

Each of the following has previously been cited as a drift seed in one or more of the references in the bibliography. Synonymy has occurred in some instances, but allowed to remain because it is so ingrained in the literature. Any additions, deletions, corrections or other comments are encouraged.

This is definitely "a work in progress." It can use your help.

<b>Scientific Name</b>	<b>Common Name</b>		
1 <i>Abuta</i> sp.	Abuta	26 <i>Areca catechu</i>	Betel nut
2 <i>Acacia cyclops</i>	Rooikans	27 <i>Arecastrum romanzoffiana</i>	Queen palm
3 <i>Acacia farnesiana</i>	Sweet acacia	28 <i>Argusia argentea</i>	Octopus bush
4 <i>Acacia longifolia</i>	Western yarrow	29 <i>Artocarpus communis</i>	Breadfruit
5 <i>Acrocomia</i> spp.	Prickly palm	30 <i>Astrocaryum alatum</i>	Starnut palm
6 <i>Adansonia</i> sp.	Baobab	31 <i>Astrocaryum</i> sp.	Starnut palm
7 <i>Aegiceras corniculatum</i>	River mangrove	32 <i>Attalea cohune</i>	Cohune
8 <i>Afrocarpus falcatus</i>	Outeniqua yellowwood	33 <i>Atuna racemosa</i>	Makita
9 <i>Albizia saman</i>	Cow bean	34 <i>Avicennia germinans</i>	Black mangrove
10 <i>Aleurites fordii</i>	Tung nut	35 <i>Baccaurea</i> sp.	Onion tree
11 <i>Aleurites moluccana</i>	Candlenut	36 <i>Bactris</i> spp.	Beach palm
12 <i>Alfonsia oleifera</i>	Palm	37 <i>Barringtonia asiatica</i>	Boxfruit
13 <i>Amomum</i> sp.	Silky dogwood	38 <i>Barringtonia racemosa</i>	Powder-puff tree
14 <i>Amphitecna latifolia</i>	Black calabash	39 <i>Beilschmiedia bancroftii</i>	Yellow walnut
15 <i>Amygdalus persica</i>	Peach*	40 <i>Bertholletia excelsa</i>	Brazil nut
16 <i>Anacardium occidentale</i>	Cashew*	41 <i>Bixa orellana</i>	Annatto
17 <i>Andira galeottiana</i>	Donovan's brain	42 <i>Blighia sapida</i>	Akee
18 <i>Andira inermis</i>	Cabbage bark	43 <i>Blumeodendron</i> sp.	
19 <i>Anisophyllea corneri</i>		44 <i>Borassus</i> sp.	Palm
20 <i>Annona glabra</i>	Pond apple	45 <i>Brackenridgea</i>	Yellow hibiscus
21 <i>Annona squamosa</i>	Sugar apple	46 <i>Brassia actinophylla</i>	Umbrella tree
22 <i>Apeiba aspera</i>	Monkeycomb	47 <i>Brownlowia argentata</i>	Dungun
23 <i>Arachis hypogaea</i>	Peanut*	48 <i>Bruguiera gymnorrhiza</i>	Tumu
24 <i>Archidendron</i> sp.		49 <i>Cacougia coccinea</i>	
25 <i>Archontophoenix cunninghamiana</i>	Bangalow palm	50 <i>Caesalpinia bonduc</i>	Gray nickernut
		51 <i>Caesalpinia ciliata</i>	Yellow Nickernut

<b>52</b> Caesalpinia major	Brown nickernut	<b>93</b> Cinnamomum camphora	Camphor laurel
<b>53</b> Cakile edentula	Sea rocket	<b>94</b> Citrullus lanatus	Citron melon*
<b>54</b> Calatola costaricensis	Calatola	<b>95</b> Citrus spp.	Orange etc.*
<b>55</b> Calocarpum spp.	Egg fruit	<b>96</b> Clerodendrum inerme	Seaside clerodendrum
<b>56</b> Calodendrum spp.	Cape chestnut	<b>97</b> Coccoloba laurifolia	Pigeon plum
<b>57</b> Calophyllum calaba	Laurelwood	<b>98</b> Coccoloba uvifera	Sea grape
<b>58</b> Calophyllum inophyllum	Tamanu	<b>99</b> Cocos nucifera	Coconut
<b>59</b> Calystegia soldanella	Sea bindweed	<b>100</b> Coix lacryma-jobi	Job's tear
<b>60</b> Canarium decumanum	Gapip nut	<b>101</b> Colubrina asiatica	Vera
<b>61</b> Canarium harveyi	Canarium nut	<b>102</b> Combretum exalatum	
<b>62</b> Canarium mehenbethune		<b>103</b> Combretum laxum	Papaniel
<b>63</b> Canavalia bonariensis	Beach bean	<b>104</b> Conocarpus erectus	Button mangrove
<b>64</b> Canavalia cathartica	Mauna loa	<b>105</b> Cordia sebestena	Orange ginger
<b>65</b> Canavalia nitida	Cathie's bean	<b>106</b> Cordia subcordata	Sea trumpet
<b>66</b> Canavalia rosea	Bay bean	<b>107</b> Corylus avellana	Filbert*
<b>67</b> Canavalia sericea	Silky jackbean	<b>108</b> Crescentia cujete	Calabash
<b>68</b> Canna sp.	Canna lily	<b>109</b> Crinum americanum	Southern swamp-lily
<b>69</b> Carapa guianensis	Crabwood	<b>110</b> Crinum asiaticum	Asian swamp-lily
<b>70</b> Cardiospermum grandiflorum	Balloon vine	<b>111</b> Crudia schreberi	
<b>71</b> Carica papaya	Papaya	<b>112</b> Cryptocarya latifolia	
<b>72</b> Carpinus caroliniana	American hornbeam	<b>113</b> Cryptocarya pleurosperma	Poison walnut
<b>73</b> Carya aquatica	Water hickory	<b>114</b> Cupaniopsis anacardioides	Tuckeroo
<b>74</b> Carya glabra	Pignut	<b>115</b> Cycas circinalis	Sago palm
<b>75</b> Carya illinoensis	Pecan	<b>116</b> Cycas rumphii	Bread palm
<b>76</b> Carya tomentosa	Mockernut	<b>117</b> Cynometra cauliflora	NanNam
<b>77</b> Caryocar glabrum	Smooth porcupine	<b>118</b> Cynometra iripa	Wrinklepod mangrove
<b>78</b> Caryocar microcarpum	Porcupine seed	<b>119</b> Dalbergia candenatensis	Dalbergia
<b>79</b> Caryocar villosum	Almendro	<b>120</b> Dalbergia ecastaphyllum	Coin vine
<b>80</b> Cassia fistula	Golden shower	<b>121</b> Dalbergia monetaria	Giant coin plant
<b>81</b> Cassia grandis	Pink shower	<b>122</b> Delonix regia	Royal poinciana
<b>82</b> Cassytha filiformis	Devil's gut	<b>123</b> Dendrolobium umbellatum	Lala
<b>83</b> Castanea sp.	Chestnut	<b>124</b> Dendrosicus latifolius	Black calabash
<b>84</b> Castanospermum australe	Morton bay chestnut	<b>125</b> Derris trifoliata	Common derris
<b>85</b> Casuarina equisetifolia	Australine pine cone	<b>126</b> Dialium schlechteri	Slick-seed
<b>86</b> Casuarina spp.	Beefwood	<b>127</b> Dioclea hexandra	
<b>87</b> Cerbera manghas	Dog bane	<b>128</b> Dioclea javanica	Saddle bean
<b>88</b> Cerbera odollam	Suicide tree	<b>129</b> Dioclea megacarpa	Oho de mono
<b>89</b> Ceriops tagal	Tengar	<b>130</b> Dioclea panamensis	
<b>90</b> Chlaenandra sp.			
<b>91</b> Chrysobalanus icaco	Coco-plum		
<b>92</b> Chrysophyllum cainito	Star apple		

<b>131</b> <i>Dioclea reflexa</i>	Sea purse	<b>169</b> <i>Gnetum</i> sp.	Spanish koint fir
<b>132</b> <i>Dioclea</i> sp.	Sea purse	<b>170</b> <i>Grevillea robusta</i>	Silky oak
<b>133</b> <i>Dioclea</i> sp.	Ren's bean	<b>171</b> <i>Grevillea gibbosa</i>	Rose apple
<b>134</b> <i>Dioclea wilsonia</i>		<b>172</b> <i>Grias cauliflora</i>	Anchovy pear
<b>135</b> <i>Dioscorea bulbifera</i>	Air yam	<b>173</b> <i>Guarea</i> sp.	Muskwood
<b>136</b> <i>Dioscorea pentophylla</i>	Yam	<b>174</b> <i>Guazuma ulmifolia</i>	Mutamba
<b>137</b> <i>Dodonaea viscosa</i>	Aalii	<b>175</b> <i>Guettarda speciosa</i>	Buabua
<b>138</b> <i>Durio zibethinus</i>	Durian	<b>176</b> <i>Guilandiro crista</i>	Molluca nut
<b>139</b> <i>Elaeis guineensis</i>	African oil palm	<b>177</b> <i>Gyrocarpus americanus</i>	Propellor bush
<b>140</b> <i>Elaeocarpus grandis</i>	Blue quandong	<b>178</b> <i>Hakea sericea</i>	
<b>141</b> <i>Elaeodendron xylocarpum</i>		<b>179</b> <i>Helinus ovata</i>	
<b>142</b> <i>Enallagma latifolia</i>	Black calabash	<b>180</b> <i>Heritiera globosa</i>	Dungun besar
<b>143</b> <i>Encephalartos</i> spp.	Cycad	<b>181</b> <i>Heritiera littoralis</i>	Puzzle fruit
<b>144</b> <i>Endiandra sieberi</i>	Hard corkwood	<b>182</b> <i>Hernandia nymphaeifolia</i>	Lantern tree
<b>145</b> <i>Entada gigas</i>	Sea heart	<b>183</b> <i>Hernandia sonora</i>	Lantern tree
<b>146</b> <i>Entada parvifolia</i>	Hemi-modama	<b>184</b> <i>Hevea brasiliensis</i>	Rubber tree seed
<b>147</b> <i>Entada phaseoloides</i>	Snuffbox seabean	<b>185</b> <i>Hibiscus diversifolius</i>	Swamp hibiscus
<b>148</b> <i>Entada rheedii</i>	African dream seed	<b>186</b> <i>Hibiscus tiliaceus</i>	Mahoe
<b>149</b> <i>Enterolobium cyclocarpum</i>	Large ear-pod	<b>187</b> <i>Hippomane mancinella</i>	Manchineel
<b>150</b> <i>Enterolobium timbouva</i>	Small ear-pod	<b>188</b> <i>Hodgsonia macrocarpa</i>	Hodgsonia seed
<b>151</b> <i>Erythrina crista-galli</i>	Wiliwili haole	<b>189</b> <i>Hura crepitans</i>	Sandbox tree
<b>152</b> <i>Erythrina fusca</i>	Ndrala	<b>190</b> <i>Hymenaea courbaril</i>	West Indian locust
<b>153</b> <i>Erythrina herbacea</i>	Coral bean	<b>191</b> <i>Hymenocallis lirisome</i>	Spider lily
<b>154</b> <i>Erythrina sandwicensis</i>	Wiliwili	<b>192</b> <i>Hyperbaena valida</i>	
<b>155</b> <i>Erythrina</i> sp.	Roach egg	<b>193</b> <i>Hyphaene compressa</i>	
<b>156</b> <i>Erythrina variegata</i>	Tiger claw	<b>194</b> <i>Hyphaene pertersiana</i>	Real fan palm
<b>157</b> <i>Eucalyptus</i> spp.	Gum tree	<b>195</b> <i>Inocarpus edulis</i>	Tahitian chestnut
<b>158</b> <i>Eugeissona minor</i>		<b>196</b> <i>Inocarpus fagifer</i>	Tahitian chestnut
<b>159</b> <i>Eusideroxylon malagangai</i>	Belian	<b>197</b> <i>Intsia bijuga</i>	Kwila
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<b>166</b> <i>Gigasiphon humblodtianum</i>		<b>204</b> <i>Jatropha</i> sp.	
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<b>168</b> <i>Gigasiphon schlechteri</i>		<b>206</b> <i>Juglans ailantifolia</i>	Japanese walnut
		<b>207</b> <i>Juglans cinerea</i>	White walnut
		<b>208</b> <i>Juglans jamaicensis</i>	Tropical walnut
		<b>209</b> <i>Juglans nigra</i>	Black walnut
		<b>210</b> <i>Juglans regia</i>	English walnut

<b>211</b>	<i>Kigelia pinnata</i>	Sausage tree fruit	<b>250</b>	<i>Mucuna sloanei</i>	Hamburger
<b>212</b>	<i>Lactaria salubris</i>		<b>251</b>	<i>Mucuna urens</i>	Hamburger
<b>213</b>	<i>Laguncularia racemosa</i>	White mangrove	<b>252</b>	<i>Myristica fragrans</i>	Nutmeg
<b>214</b>	<i>Lathyrus japonicus</i>	Sea pea	<b>253</b>	<i>Myristica surinanensis</i>	Ucuuba
<b>215</b>	<i>Lecythis</i> sp.	Sapucaia nuts	<b>254</b>	<i>Neisosperma oppositifolium</i>	Vaoko
<b>216</b>	<i>Leucaena glauca</i>	Wild tamarind	<b>255</b>	<i>Nelicia</i> sp.	
<b>217</b>	<i>Liquidambar styraciflua</i>	American sweet-gum	<b>256</b>	<i>Nelumbo lutea</i>	American lotus
<b>218</b>	<i>Litchi chinensis</i>	Lychee	<b>257</b>	<i>Nelumbo nucifera</i>	Sacred lotus
<b>219</b>	<i>Lithocarpus</i> spp.	New Guinea oak	<b>258</b>	<i>Noltia africana</i>	
<b>220</b>	<i>Lodoicea maldivica</i>	Coco-de-mer	<b>259</b>	<i>Normanbya normanbyi</i>	Black palm
<b>221</b>	<i>Luffa insularum</i>	Dishrag gourd	<b>260</b>	<i>Noronhia emarginata</i>	Madagascar olive
<b>222</b>	<i>Lumnitzera racemosa</i>	Tonga mangrove	<b>261</b>	<i>Nypa fruticans</i>	Nypa
<b>223</b>	<i>Macadamia tetraphylla</i>	Macadamia	<b>262</b>	<i>Ochrosia elliptica</i>	Elliptic yellow-wood
<b>224</b>	<i>Machaerium falciforme</i>		<b>263</b>	<i>Ochrosia oppositifolia</i>	Bwa sousouri
<b>225</b>	<i>Machaerium lunatus</i>		<b>264</b>	<i>Omphalea diandra</i>	Jamaican naval-spurge
<b>226</b>	<i>Macrozamia communis</i>	Burkawang	<b>265</b>	<i>Omphalea panamensis</i>	
<b>227</b>	<i>Mammea americana</i>	Mamme apple	<b>266</b>	<i>Omphalea papuana</i>	Otto's folly
<b>228</b>	<i>Mangifera indica</i>	Mango*	<b>267</b>	<i>Omphalea triandra</i>	
<b>229</b>	<i>Manicaria saccifera</i>	Sea coconut	<b>268</b>	<i>Orania aruensis</i>	Rattan
<b>230</b>	<i>Mastichodendron capiri</i>	Mastic	<b>269</b>	<i>Orbignya cohune</i>	Cohune
<b>231</b>	<i>Mastichodendron foetidissium</i>		<b>270</b>	<i>Ormosia coutinhot</i>	Red beans
<b>232</b>	<i>Maximiliana caribaea</i>	Cocoid palm	<b>271</b>	<i>Oxyrhynchus trinervius</i>	Little marble
<b>233</b>	<i>Melia azedarach</i>	Chinaberry	<b>272</b>	<i>Oxyrhynchus volubilis</i>	Little marble
<b>234</b>	<i>Merremia discoidesperma</i>	Mary's bean	<b>273</b>	<i>Pachira aquatica</i>	Three-lobed Pachira
<b>235</b>	<i>Merremia tuberosa</i>	Wood rose	<b>274</b>	<i>Pachystigma</i> spp.	Rock toothwort
<b>236</b>	<i>Metroxylon amicarum</i>	Caroline Ivory Nut Palm	<b>275</b>	<i>Pandanus tectorius</i>	Screw pine
<b>237</b>	<i>Metroxylon vitiense</i>	Sago palm	<b>276</b>	<i>Pangium edule</i>	Pangui
<b>238</b>	<i>Mimusops caffra</i>	Red milkwood	<b>277</b>	<i>Parinarium glaberrimum</i>	Chenitem
<b>239</b>	<i>Momordica charanta</i>	Balsam apple	<b>278</b>	<i>Passiflora</i> sp	Passion fruit
<b>240</b>	<i>Mora excelsa</i>	Mora	<b>279</b>	<i>Pelliciera rhizophorae</i>	Tea mangrove
<b>241</b>	<i>Mora oleifera</i>	Mora	<b>280</b>	<i>Peltophorum inerme</i>	Yellow flamboyant
<b>242</b>	<i>Morinda citrifolia</i>	Indian mulberry	<b>281</b>	<i>Persea americana</i>	Avocado
<b>243</b>	<i>Moringa oleitera</i>	Horseradish tree	<b>282</b>	<i>Phaleria disperma</i>	Suni
<b>244</b>	<i>Mucuna fawcettii</i>	Thick-banded mucuna	<b>283</b>	<i>Phoenix dactylifera</i>	Date palm
<b>245</b>	<i>Mucuna flagellipes</i>	Duiker	<b>284</b>	<i>Physostigma cylindrosperma</i>	Calabar
<b>246</b>	<i>Mucuna gigantea</i>	Velvet bean	<b>285</b>	<i>Physostigma venenosum</i>	Calabar bean
<b>247</b>	<i>Mucuna holtonii</i>	Black mucuna	<b>286</b>	<i>Phytelephas macrocarpa</i>	Ivory nut palm
<b>248</b>	<i>Mucuna myriaptera</i>		<b>287</b>	<i>Pinus</i> sp	Pine cone
<b>249</b>	<i>Mucuna nigricans</i>	Black mucuna			



<b>288</b> <i>Pistacia</i> sp	Pistachio*	<b>329</b> <i>Sapindus saponaria</i>	Black pearl
<b>289</b> <i>Pithecellobium belizensis</i>		<b>330</b> <i>Scaevola koenigii</i>	Beach naupaka
<b>290</b> <i>Pithecellobium dulce</i>	Manila tamarind	<b>331</b> <i>Scaevola plumieri</i>	White inkberry
<b>291</b> <i>Pithecellobium ebano</i>	Texas ebony	<b>332</b> <i>Scaevola taccada</i>	White inkberry
<b>292</b> <i>Plantanus occidentalis</i>	American sycamore	<b>333</b> <i>Schinus terebinthifolius</i>	Christmas berry
<b>293</b> <i>Pleiogynium timoriense</i>	Burdekin plum	<b>334</b> <i>Schotia latifolia</i>	Forest boar-bean
<b>294</b> <i>Podocarpus</i> sp.	Yew	<b>335</b> <i>Sclerocarya birrea</i>	Marula
<b>295</b> <i>Pongamia pinnata</i>	Pongamia	<b>336</b> <i>Scyphiphora hydrophylacea</i>	Mangrove
<b>296</b> <i>Poupartia amazonica</i>	Black sea biscuit	<b>337</b> <i>Serianthes grandiflora</i>	
<b>297</b> <i>Pouteria campechiana</i>	Egg fruit	<b>338</b> <i>Sideroxylon capiri</i>	Mastic
<b>298</b> <i>Pouteria sapota</i>	Mamey sapota	<b>339</b> <i>Sideroxylon foetidissimum</i>	Mastic
<b>299</b> <i>Prioria copaifera</i>		<b>340</b> <i>Smilax bona-nox</i>	Bullbrier
<b>300</b> <i>Prosopis juliflora</i>	Mesquite	<b>341</b> <i>Smythea lanceata</i>	
<b>301</b> <i>Prunis armeniaca</i>	Black cherry*	<b>342</b> <i>Smythea luctuosa</i>	
<b>302</b> <i>Prunus cerasifera</i>	Methley plum*	<b>343</b> <i>Sonneratia alba</i>	Pornupan mangrove
<b>303</b> <i>Prunus persica</i>	Peach*	<b>344</b> <i>Sonneratia caseolaris</i>	Mangrove apple
<b>304</b> <i>Prunus turneriana</i>	Almond bark	<b>345</b> <i>Sophora mirophylla</i>	Kowhai
<b>305</b> <i>Pseudocalymma alliacerum</i>	Garlic vine	<b>346</b> <i>Sophora secundiflora</i>	Mescal bean
<b>306</b> <i>Psidium guajava</i>	Guava	<b>347</b> <i>Sophora tomentosa</i>	Necklace pod
<b>307</b> <i>Psidium</i> sp	Guava	<b>348</b> <i>Spondias dulcis</i>	Hog plum
<b>308</b> <i>Pterocarpus amazonica</i>	Gundururu	<b>349</b> <i>Spondias mombin</i>	Hog plum
<b>309</b> <i>Pterocarpus officinalis</i>	Bloodwood	<b>350</b> <i>Sterculia apetala</i>	Panama tree
<b>310</b> <i>Pterocymbium javanicum</i>	Taluto	<b>351</b> <i>Sterculia carthaginensis</i>	Chica
<b>311</b> <i>Quercus bennettii</i>	Mempening began	<b>352</b> <i>Sterculia foetida</i>	Java olive
<b>312</b> <i>Quercus humboldth</i>	Acorn	<b>353</b> <i>Strongylodon lucidus</i>	Jade vine
<b>313</b> <i>Quercus macrocarpa</i>	Giant acorn	<b>354</b> <i>Suriana maritima</i>	Bay cedar
<b>314</b> <i>Quercus</i> spp.	Oak acorn	<b>355</b> <i>Swietenia mahagoni</i>	West Indian mahogany
<b>315</b> <i>Quisqualis indica</i>	Quisqualis	<b>356</b> <i>Syagrus</i> sp.	Queen palm
<b>316</b> <i>Raphia taedigera</i>	Swamp palm	<b>357</b> <i>Syzygium cuminii</i>	Java plum
<b>317</b> <i>Rhizophora mangle</i>	Red mangrove	<b>358</b> <i>Syzygium jambas</i>	Rose apple
<b>318</b> <i>Rhizophora mucronata</i>	Mangrove	<b>359</b> <i>Tacca leoteopetaloides</i>	Tacca
<b>319</b> <i>Rhizophora samoensis</i>		<b>360</b> <i>Tacca pinnatifida</i>	Pia
<b>320</b> <i>Rhizophora stylosa</i>	Stilt mangrove	<b>361</b> <i>Talisia olivaeformis</i>	
<b>321</b> <i>Ricinus communis</i>	Castor bean	<b>362</b> <i>Tamarindus indica</i>	Tamarind
<b>322</b> <i>Rytigania</i> sp.		<b>363</b> <i>Taxodium distichum</i>	Southern cypress
<b>323</b> <i>Sabal palmetto</i>	Sabal palm	<b>364</b> <i>Tecoma stans</i>	Yellow bells
<b>324</b> <i>Sacoglottis amazonica</i>	Handgrenade	<b>365</b> <i>Teijsmamioidendron pterododium</i>	
<b>325</b> <i>Sacoglottis gabonensis</i>	Akouapo	<b>366</b> <i>Telfairia pedata</i>	Oyster nut
<b>326</b> <i>Salicornia virginica</i>	Pickleweed	<b>367</b> <i>Terminalia catappa</i>	Tropical almond
<b>327</b> <i>Samanea saman</i>	Monkey pod seed		
<b>328</b> <i>Sapindus oahuensis</i>	Soapberry		

<b>368</b> Terminalia spp.	Tropical almond	<b>381</b> Vateria papuana	
<b>369</b> Tetragonia tetragonioides	Warrigal greens	<b>382</b> Vateria umbonata	
<b>370</b> Theobroma cacao	Chocolate	<b>383</b> Vernicia fordii	Tung oil tree
<b>371</b> Thespesia populnea	Mahoe	<b>384</b> Vigna lutea	Vetch
<b>372</b> Thevetia peruviana	Yellow oleander	<b>385</b> Vigna luteola	Deer pea
<b>373</b> Tournefortia argentea	Tree heliotrope	<b>386</b> Vigna sp.	Beach Pea
<b>374</b> Tournefortia gnaphalodes	Sea lavender	<b>387</b> Vitex trifolia	Simpleleaf chaste tree
<b>375</b> Trapa bispinosa	Water chestnut	<b>388</b> Wedelia biflora	Yellow dots
<b>376</b> Trapa natans	Water caltrop	<b>389</b> Widdringtonia sp.	
<b>377</b> Tribulus cistoides	Jamaican fever plant	<b>390</b> Xanthium occidentale	Old man saltbush
<b>378</b> Triumfetta procumbens	Mautofu	<b>391</b> Xanthium strumarium	Cockleburr
<b>379</b> Uniola paniculata	Sea oats	<b>392</b> Ximения americana	Tallownut seed
<b>380</b> Vantanea guianensis		<b>393</b> Xylocarpus moluccensis	Cannonball Tree

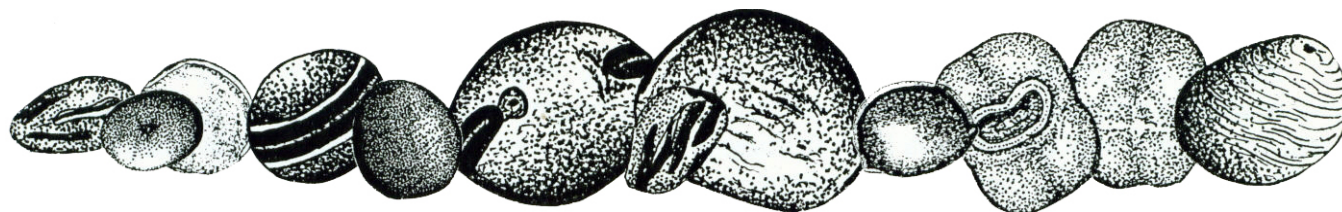
\* Generally considered beach garbage.

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*He has half the deed done who has made a beginning.*

Horace



*The Drifting Seed*, 14.2, September 2008

## Cathie's Bean How Rare is Rare?

Jerry Sullivan and Alan Rammer  
[geraldsully@yahoo.com](mailto:geraldsully@yahoo.com) and [rammeadr@dfw.wa.gov](mailto:rammeadr@dfw.wa.gov)

“Those of you looking for this seed, be patient.  
It is most rare, and only comes along once in  
a lifetime. Kind of like Cathie Katz!”

So proclaimed editor Ed Perry back in 2002 following the acceptance of Cathie's bean as the official common name for *Canavalia nitida*, one of the most rare and beautiful drift seeds.

How rare is rare? A cursory review of the literature revealed a limited number of instances in which *Canavalia nitida* was reported as a drift seed. In the early 1900's MacGillivray of Scotland added one to his collection, C.T. Simpson (1) in 1920 located one on a Florida beach, while in 1964 Sauer (2) reported one either in Florida or the Caribbean. Gunn and Dennis (3) cited in 1976 four colors for *C. nitida* which included dark wine, red, black and tan. They also stated “We have collected drift seeds from the beaches of southern United States.” This really does not tell us much but presumably collections were made in Florida and from the colors reported, maybe as few as four were found.

The Florida beaches have been a haven for Cathie's bean seekers; Ed Perry in 1999, John Beerensson, 2001 and Christopher Boykin in 2004. On April 29, 2008, possibly the find of the century was made by Bruce and Nancy Haver who found two Cathie's beans a short distance from one another on their Florida beach. Rumor has it that Mike and Sam Burnett of Port O'Connor, Texas, have three Cathie's beans between them.

Alan Rammer, a Washington State Fish and Wildlife Marine Educator related the following: “Sam found her Cathie's bean before the symposium in 2004 because she had it with her for all to drool over (including me!). This was my first symposium. Mike found his first one after that, and miraculously found his second on Cathie Katz's birthday on May 14<sup>th</sup> of this year. Some mutual friends, John and Debbie Anderson of Forks, Washington, were visiting Mike and Sam in mid-May and they found one too. I found mine on May 30<sup>th</sup> the day before I flew home. Mike told me that mine was the 5<sup>th</sup> one he knew of from Texas.” All of these were collected from the Matagorda area beaches along the Texas gulf coast.

All in all, one might possibly surmise that less than twenty Cathie's beans have been found. That, indeed, certainly qualifies it as a very, very rare drift seed.

The plant itself may also be rare since its distribution is limited; confined to the Caymans, Cuba, Dominican Republic, Haiti, Puerto Rico and both British and U.S. Virgin Islands, all small islands in the Caribbean.

Internet photographs depict Cathie's bean as dark red wine, dark red and also shades of pink in color. A number of these seeds exhibited black colored blotches. Totally black or tan colored ones were not illustrated.

During Memorial Day weekend, specifically May 25, 2008, less than one-half mile of beach wrack had been examined with limited success. The Texas sun on Mustang Island had created a heat index of 115 degrees and without cloud cover it was nearly unbearable. Near collapse, a short water break at the auto was taken. The debate then began—quit now and survive or continue the search for the ever elusive drift seeds. Y'all already know the answer, same as yours. Barely back to the wrack, the peripheral vision of the laser eye registered a small round maroon-colored object twenty feet away on a tuft of fresh golden-colored sargassum. A rotation of the shoulder brought the sinister eye into play and in less than a nanosecond, the neural synapses had all fired, dispatching



electrical impulses to the brain—it had to be, there was no doubt! Unbelievable! Yes, yes, it was! It is virtually impossible for one to imagine the adrenaline rush and resulting sensation of euphoria. There was also an uncontrollable need to rush home and share this once in a lifetime happening with my wife, Carol. She simply would not have a clue.

Some five minutes later I confronted her with this monumental find. This gem of the gulf was offered by open palm for her examination and identification (just don't touch). Her immediate but very casual response was, "Okay --a Cathie's bean, it's illustrated in the first couple of pages of Ed's book (4). Here, let me show

you." Come on give me a break, at least a pat on the head! Illustrated here is my Cathie's bean nestled in sargassum, whereas, Rammer's is palm presented.

Rammer recalls his encounter in the following manner: "It was setting on clean white sand between two clumps of sargassum with the sun shining on it. The sensation of seeing it was much like running head first into a brick wall. Still get all excited thinking about it. I have a special glass box for that bean. Mike sent me some Matagorda sand and dried sargassum, so I am now ready to complete my mini-beach display for my bedroom dresser."

Don't despair. You may become the next member of the *chosen few*. The very next wrack you encounter may well harbor your own personal Cathie's bean. Lots of luck fellow drifters, but a bit of sage advice: "don't hold your breath until it happens."



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*A very beautiful woman hardly ever leaves a clear-cut impression  
of features and shape in the memory: usually there remains only an aura of living colour.*  
William Bolitho

## Drift Items from Agony Beach

John Williams & Seabeader Sullivan

[John.williams@mail.utexas.edu](mailto:John.williams@mail.utexas.edu) & [geraldsully@yahoo.com](mailto:geraldsully@yahoo.com)

This was a “guy thing” which involved a gathering of ten longtime male acquaintances with the main purpose of pursuing the elusive sailfish. As it actually evolved, it was mostly retelling old lies and creating new ones which were made more palatable by quaffing down assorted local cervezas. Needless to say, the fish population was not diminished one iota.

Welcome to “agony beach”! This is the beach at Puerto Escondido, Mexico, and so labeled because of the massive abundance of giant acacia thorns embedded in the sand and wrack. Even with protective footwear, klutzy John succeeded in skewering his rather large toe on a super large hidden thorn. He was the maverick in this group because of his drift seed fixation and even under these hazardous health conditions, he was relentless in this pursuit.

The following were resurrected from the wrack:

Acacia thorns	Manchineel
Acorn	Mango
Annatto	Mastic
Bay bean	Papamiel
Beach glass	Plastic debris
Black pearl	Prickly palm
Cabbage bark	Quisqualis
Carrotwood	Railroad vine
Castor bean	Royal poinciana
Coconut	Sea sponge
Coco-plum	Sugar-apple
Hamburger bean	Tropical almond
Hog-plum	Tropical walnut
Lucky nut	West Indian locust

The most significant find was an intact annatto pod (*Bixa orellana*) which upon drying released fourteen (14) small irregularly shaped, brown seeds. This may be the first report of an annatto pod and/or seeds as a drift disseminule. Apparently the intact pod is necessary for ocean distribution since the dried seeds tested in authentic gulf water were immediately “El Sinko.”

These tiny seeds contain a diverse mixture of closely related chemical compounds, collectively



designated as carotinoids which range in color from red to orange to yellow. Commercially these pigments are employed as coloring agents for cheeses, soft drinks, oils, soups, butter etc. In yesteryear one may recall the ritual of squeezing the colorless margarine in a plastic bag with a small

amount of annatto until a uniformly yellow-colored butter substitute was formed. Milled annatto seeds may be found in the spice section of today's supermarket. Over a hundred medicinal uses for annatto are listed, ranging from an aphrodisiac to an aggressive stimulant for bulls engaging in fights to their death in bullrings. Scary!

Hoads of *Combretum laxum*, or more commonly known as papamiel, were intermixed in the wrack. Dunn and Dennis first reported this winged seed as a drift disseminule from the Yucatan Peninsula.

Another interesting find were two perfectly matched halves of a royal poinciana pod *Delonix regia*, along with fourteen (14) dispersed seeds in the near vicinity. Since the seeds do not float, the intact pod must have washed ashore, dried, split in two, thereby releasing the seeds into the wrack.

The remaining disseminules listed fairly well mirrored those reported in 1949 for the drift seeds found on San Jose Island in the Gulf of Panama (1). Much like those found by Johnston (1), the seeds found at "agony beach" were attributed to local flora. The near absence of collectible seabean, i.e. hamburgers, seahearts, sea purses, etc., might be explained by commercial demand from local collectors, since many vendors in town sold seabean jewelry. Alternatively, it could have simply been the wrong time of the year.

Although there were horrific amounts of drift garbage present, it was somewhat reassuring in that all of the plastic items observed were devoid of turtle bites even though a large population of turtles reside in the area. The ingested "tabs" of plastic are implicated as major contributors to the demise of the sea turtle.

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Much thanks to Editor Ed for his identification of these drift seeds.

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## News and Notes

### Florida Beach Basics™ – The Space Coast Just What You Need to Know!

Long-time Drifters Marge Bell, Jim Angy, and Matt MacQueen are proud to announce their latest product, *Florida Beach Basics™ – The Space Coast*. The DVD and six UV-coated reference cards describe the Space Coast's beaches from Cape Canaveral and Cocoa Beach south to Sebastian Inlet and the natural treasures you may find along this beautiful stretch of Florida coastline.

The DVD contains eight five-minute tutorials that will help find your way around Brevard County, get to a beach you might otherwise miss, and identify the birds, sea turtles, sea-beans, shells, plants, and flotsam found on the County's beaches. The six colorful reference cards can go with you to the beach to remind you of what you learned on the DVD.

The DVD is jam-packed with useful, basic information, in easy-to-watch short segments. The cards and DVD are sold in a reusable drawstring poly bag with removable labels. In keeping with the underlying theme of treating the environment and its inhabitants with respect, the DVD is packaged in a recycled stock jacket printed with soy ink.

You'll recognize names and/or faces of people that appear in the DVD: Dr. Curtis Ebbesmeyer, Ed Perry, Cecelia Abbott, and Blair and Dawn Witherington. And at [www.FloridaBeachBasics.com](http://www.FloridaBeachBasics.com), you'll find a product demo, video clips of a beach walk with Dr. Curtis Ebbesmeyer, a video clip of Alice Lowe talking about her beach walk methods, a Reference section, and a Beach Buzz Blog with news of what's going on at the beach, nature-wise.

To purchase the kit, available for \$15.00 (shipping is free), visit [www.FloridaBeachBasics.com](http://www.FloridaBeachBasics.com). The kit will also be available at the Sea-Bean Symposium.

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This e-mail from a new fan in Ireland:

Hi, I'm from Belfast Northern Ireland, last week I was walking along White Park Bay, a beach on the north coast of **Ireland**, and came across this seabean (I believe it's a **seaheart**) and was wondering if you could provide any information about it. It was found on the ninth of June this year along the high water mark. Any information regarding where it came from and how common they can be found in Ireland would be excellent. From information I obtained from the Internet I think it might be from the Amazon on a plant called a monkey ladder vine, found along the river and has floated the whole way to Ireland along the gulf stream! This seems amazing to me if true! (And possible could be complete balderdash!) Like I say, any information you may have about this sea heart, even your best guess, would be great. I've included some photos of the offending item, take it easy!

Thanks, hope to hear from you soon,

Darran (delbotron@hotmail.co.uk) (A new seabean fan)



**(editor's note:** I verified the identity of the sea-bean for him and outlined the possibility of how it might have arrived, I asked Darran to write a short piece for the newsletter; his response below.)

After a wonderful jaunt in the car following the scenic road of Northern Ireland's rugged north coast. My (merry) band and myself ('Papa New Guineau and the Coconuts') and Bengie the dog, (who incidentally threw up in the car over the band's Italian maracas player's leg in the back seat, sorry Ademillia it was too funny!) made a few pit stops at the many scenic hideholes on the way, known as Ireland's Jurassic Coast: one such stop on this beautiful stretch of Ireland is



White Park Bay. When I was younger I found a clay pipe over 100 years old on this beach and a gold laden ship from the Spanish



Armada (1588) crashed a bit further up the coast. So there's gold in them there... beach. Anyway, in

the middle of our 'picnic' which consisted of dry roasted peanuts and tins of draft Guinness we went on a walk along the beach, I was doing my usual beachcombing routine and my pockets were already filling full of interesting stones when I noticed something just above the high tide mark.

A strange wind caressed the beach as I came upon the sea heart, and I could nearly swear I heard angelic singing straight from a Charlton Heston film as I picked the beauty up. My first seabeam! I've included some other of the finds we made that day including a really cool sand drawing someone did. The day we found the bean was such a fun filled day the cherry on the top was the fact that the seaheart came to visit us from such a long way away. You could only part me from my seaheart now from my cold dead hand!



We are very excited that **Izumi Hanno**, our world traveling seabeamer and artist, along with her companion **Jim Godfrey**, will once again be with us at this year's Symposium!

"Travels with Mr. Seabeam (Seeds Around the World)" will be her presentation. Izumi Hanno is a botanical artist, a cartoonist and a beachcomber. Jim Godfrey is a world traveler, surfer and writer.

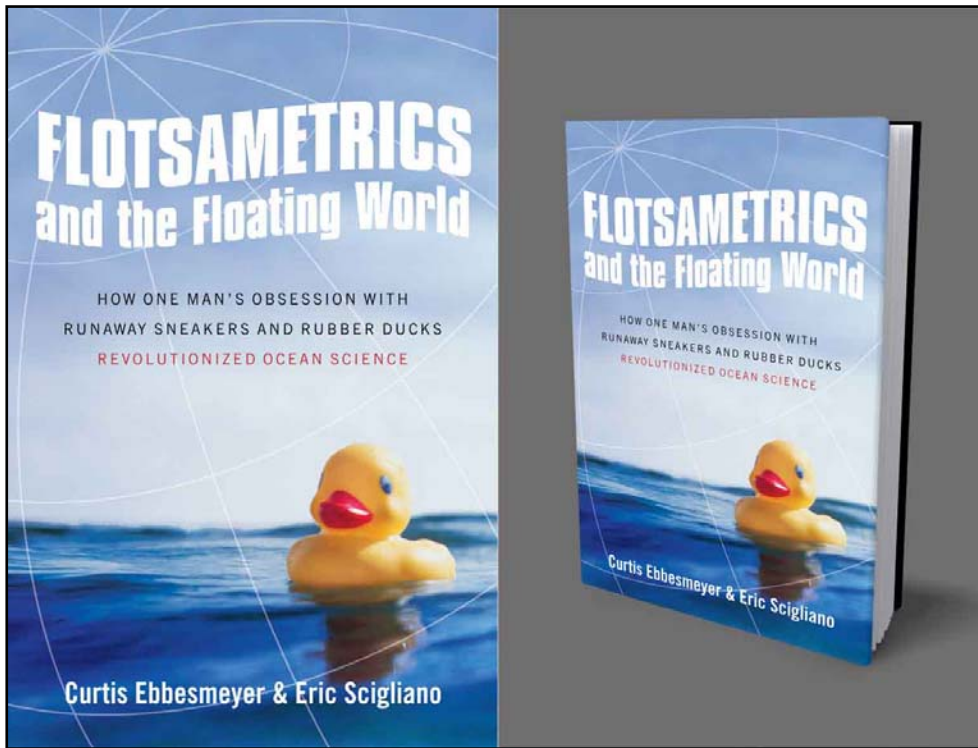
Over 5 years, they have traveled by motorcycle, boat, bus, foot, hitchhiking, plane and 4x4 researching seeds. In their presentation, they will reveal the travel secrets of South East Asia for seeds, beaches, Asian cultures and their vision of 'The Seed Museum' in Sabah, Borneo.

**Bill and Sue Woodwell** (and their dog **Blue**) of Melbourne Beach, Florida, reported some strange beach activity after the passing of tropical storm Fay in late August of this year. Migrations of **great blue land crabs** (*Cardisoma guanhumi*) passed their house in droves as they moved from lagoon to beach after the historic rains to the area.

Great blue land crabs have been mentioned in past issues of this newsletter. Some islanders believe that you can rid a hole of a land crab by dropping a nickernut (*Caesalpinia bonduc*) into the crab's den, who after failing to remove the seed with its claws, gets frustrated and moves on to make its home somewhere else.







We are looking forward to the release of Dr. Curtis Ebbesmeyer's forthcoming book, *Flotsametrics and the Floating World*, due out in April of 2009. Curt's articles and stories over the years have been of great interest to beachcombers and we are excited to finally have this work by one of our very favorite Drifters.

As usual, Curt will be with us at this year's Symposium to share with us what we can expect to find floating in our oceans this year. Who knows, maybe this will be the year someone finds a LEGO® toy on our local beaches?

These pictures are from Bermuda Drifter **Judie Clee**. This appears to be a very different *Dioclea* species—one this editor has only seen a handful of times. Most of the seeds are nearly cone shaped when resting flat and looked down upon, and the hilum of the seed makes the dome of ice cream that sits atop the cone. Does anyone know this seed? Send your comments or identifications to [Seaheart88@aol.com](mailto:Seaheart88@aol.com) (Ed Perry) and [Judieclee@logic.bm&gt](mailto:Judieclee@logic.bm&gt) (Judie Clee).



*Experience has two things to teach: The first is that we must correct a great deal; the second that we must not correct too much.*

Eugène Delacroix

# Thirteenth Annual International Sea-Bean Symposium and Beachcombers' Festival

Cocoa Beach Public Library—550 North Brevard Avenue, Cocoa Beach, Florida 32931

## Open Free To The Public, October 17<sup>th</sup> & 18<sup>th</sup>, 2008

### Schedule of Events\*

Through the weekend: Sea-bean collections and displays, experts, sea-bean polishing, the famous Bean-O-Matic, jewelry, T-shirts, slide-shows, speakers, books, authors, international guests, raffle and contests (including the ever popular “ODD-BEAN” contest, and the Saturday morning “BEAN-A-THON” beachcombing bonanza!) Sea glass identification on Saturday only.

We are pleased to announce Mr. Richard LaMotte as this year's keynote speaker and authority on beach/sea glass. Richard is vice president of the North American Sea Glass Association and author of the award-winning book *Pure SEA GLASS* (2004). He's an all around expert on beach glass. This once common find on our beaches is unfortunately being replaced by plastics. Richard will be at the event on Saturday to sign copies of his book and identify rare pieces of glass.

Natural history writers and books will be available through the weekend. Krieger Publishing Company will be pleased to once again present *Sea-Beans from the Tropics: A Collector's Guide to Sea-Beans and Other Tropical Drift on Atlantic Shores*, by Perry/Dennis (2003). Ed Perry will be on-hand to sign copies. Krieger will also have the reprint edition of the *World Guide to Tropical Drift Seeds and Fruits*. Blair and Dawn Witherington are the authors of the newly published *Florida's Living Beaches* (Pineapple Press, 2007) which is a guide to anything and everything you may encounter on Florida's beaches, featuring not only sea-beans, but also shells, fish, plants, birds, and even the “green flash!” Blair and Dawn will be at the Symposium with copies of their book. The ever-popular *The Little Book of Sea-Beans* will also be available. Jim Angy, Marge Bell and Matt MacQueen of Still Nature Productions will be offering their digital books and their new *Beach Basics*. This year we will again also make available for sale Cathie Katz' beautifully written and illustrated *The Nature of Florida's.....series*.

#### Thursday, October 16<sup>th</sup> (3-5pm)

Everyone is invited to the main conference room at the Cocoa Beach Public Library for an informal get-together and introduction, discussion of symposium plans, and to set up displays for the weekend. We need lots of help setting up tables, chairs, and displays, so please feel free to donate time and suggestions. At 6pm those interested can meet at Roberto's Little Havana Restaurant (1/2 mile south of the library at 26 N. Orlando Ave.—this place has GREAT Cuban food, and has become a Symposium tradition).

#### Friday, October 17<sup>th</sup> (9am-5pm)

Displays and collections open to the public all day, free, from 9am to 5pm. Enter your seeds/glass for the ODD-BEAN contest. 11 to 11:45am: *Beginners' Beachwalking* (slide show) by Sebastian Inlet State Park Ranger Ed Perry. 2 to 2:45pm: *What's Floating Our Oceans This Year?!* by Dr. Curtis Ebbesmeyer 5pm: The library closes; meet for dinner at Anacapri (This great restaurant is just east of the library in walking distance).

#### Saturday, October 18<sup>th</sup> (8am-9pm)

Displays and collections open to the public all day, free, from 9am to 9pm. Enter your seeds for the ODD-BEAN contest (see 4:30). 8:00 to 10:00am: Bean-A-Thon 2007—You are on your own; don't come to the library first if you participate. Collect sea-beans and or toys/trash/sea-glass on any beach between Canaveral National Seashore and Sebastian Inlet. You MUST have your beans/toys/sea-glass at the library by 10:30am. Contest is judged/tallied per individual effort in the 2hr. time frame, please. 9:00am: Library opens. 10:30 to Noon: Judges will tally Bean-A-Thon entries outside in front of the library (awards at 7pm that night). 1:00 to 2:00 pm: *Travels with Mr. SeaBean* by Izumi Hanno of the Seed Awareness Network 3 to 4pm: *Polishing Your Sea-Beans* co-presentation by experts Bill Blazek and Alice Lowe—automated and hand polishing methods. 4:00 to 4:30pm: **GROUP PICTURE OUTSIDE THE LIBRARY! Be in it! Bring your camera!** photos by Jim Angy 4:30pm: ODD-BEAN contest judging (for entries submitted all through the weekend). In a baggie with your name, address/phone number place your shiniest sea heart, largest Mary's bean, and rarest piece of sea glass (in honor of this year's keynote speaker) from an existing sea-bean collection. These entries DO NOT have to be found in the Saturday morning Bean-A-Thon. Please enter!!!! **Dinner Break: 5:00pm to 7pm:** Tables and displays will be taken down in main room in prep. for the keynote presentation. 7:00pm: Prompt! Bean-A-Thon and contest awards and certificates presented. Raffle winners chosen. 7:45 to 8:45pm: **Keynote speaker** Mr. Richard LaMotte, *Pure SEA GLASS*— 9pm: Library closes for Symposium.

#### Sunday, October 19<sup>th</sup> (9-11am)

Take down displays; small business meeting to discuss and schedule dates/help for next year's symposium.

\*October is still HURRICANE SEASON in Florida, so our schedule is at the mercy of the powers beyond our control. Hurricanes are wonderful for beanning, but can be dangerous for beachwalkers. Our beachcombing and Symposium activities may be cancelled because of severe weather, in which case we'll follow evacuation procedures to the mainland. Hurricane information will be available at your hotel and at the library.

*The Drifting Seed*, 14.2, September 2008

## Travel and Hotel Information for Symposium 2008 in Cocoa Beach

Cocoa Beach is about an hour drive from Orlando International Airport.

La Quinta: <http://laquinta.com/lq/properties/propertyProfile.do?ident=LQ622&propId=622>

Luna Sea: <http://www.lunaseacocoabeach.com/reservations.php>

Pelican Landing: <http://www.angelfire.com/on2/pelicanlandingresort/main.html>

South Beach Inn: <http://www.southbeachinn.com/accommodations.htm>

Anthony's On The Beach - 3499 S. Atlantic Ave., Cocoa Beach. 783-9892

Beach Island Resort - 1125 S. Atlantic Ave., Cocoa Beach. 784-5720

Beach Place - 1445 S. Atlantic Ave., Cocoa Beach. 783-4045

Crawford's Cocoa Cabanas - 1901 S. Atlantic Ave., Cocoa Beach. 799-0307

Sand Dollar - 1465 S. Atlantic Ave., Cocoa Beach. 783-8628

And finally, here's a link to a list of lots of local lodging. <http://cocoabeach.com/lodging.html>



### Sea-Bean T-Shirt for 2008

100 % cotton shirt

\*all shirts are a \$20 donation each\*

T-shirts are available in men's (M—3XL) or ladies' tanks and tees (S—XL).

► available at the **13<sup>th</sup> Annual Sea-Bean Symposium and Beachcombers' Festival**, Cocoa Beach, Florida ◀

(or to order through the mail write to Ed Perry, c/o *The Drifting Seed* newsletter,

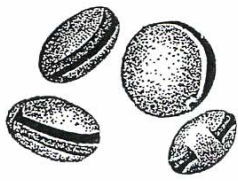
P.O. Box 510366 Melbourne Beach, Florida 32951, USA—only while supplies last.

Add \$3.00 per item to cover mailing costs, \$6.00/overseas, state the size and style of the shirts you desire)

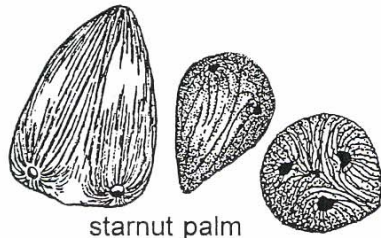
Make checks payable to: The Drifting Seed

This year's T-shirt again features the artwork of our own Nan Rhodes with her popular sea-bean characters "speed beaning" the beach from their VW microbus, complete with scoop net!

Simple Guide to Common Drift Seeds  
 (Illustrations by Cathie Katz and Pamela J. Paradine)



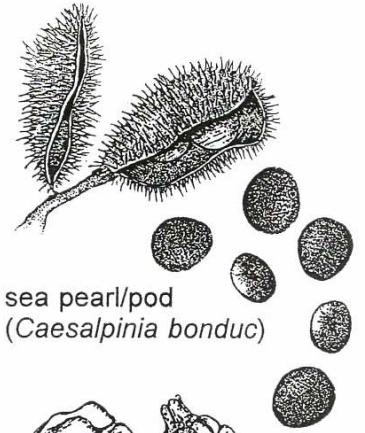
hamburger bean  
 (*Mucuna* spp.)



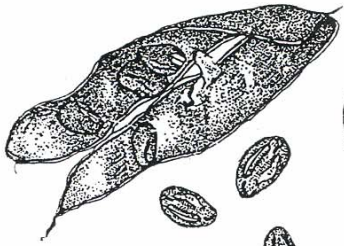
starnut palm  
 (*Astrocaryum* spp.)



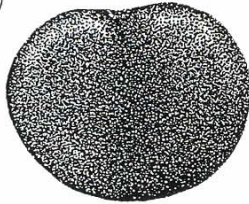
country almond  
 (*Terminalia catappa*)



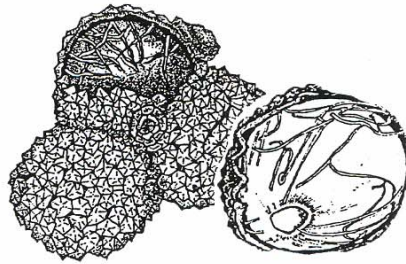
sea pearl/pod  
 (*Caesalpinia bonduc*)



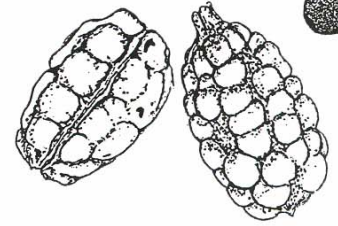
bay bean/pod  
 (*Canavalia rosea*)



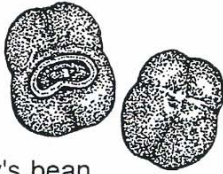
sea heart  
 (*Entada gigas*)



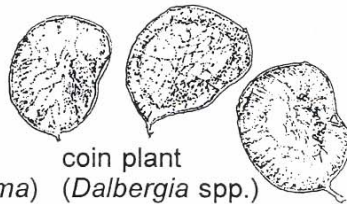
golfball/pod  
 (*Manicaria saccifera*)



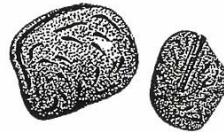
hand grenade  
 (*Sacoglottis amazonica*)



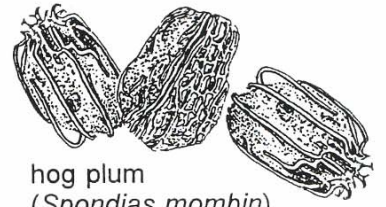
Mary's bean  
 (*Merremia discoidesperma*)



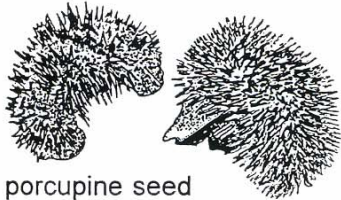
coin plant  
 (*Dalbergia* spp.)



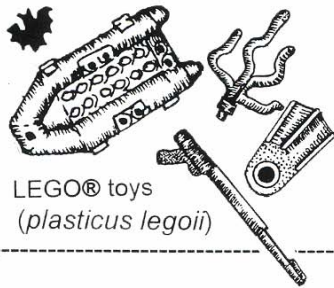
sea purse  
 (*Dioclea reflexa*)



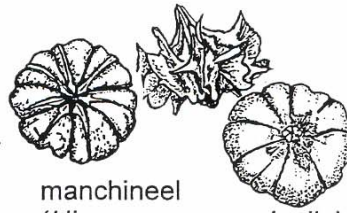
hog plum  
 (*Spondias mombin*)



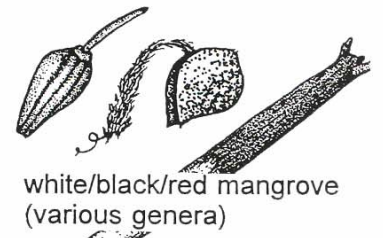
porcupine seed  
 (*Caryocar microcarpum*)



LEGO® toys  
 (*plasticus legoii*)



manchineel  
 (*Hippomane mancinella*)



white/black/red mangrove  
 (various genera)



The Drifting Seed

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