

## Alaska Marine Invasive Species Workshop Report Errata

Workshop held March 2010 – Alaska SeaLife Center, Seward, Alaska

*Sponsored by the*

Alaska Invasive Species Working Group Marine Invasive Species Subcommittee

Below are some changes in aquatic non-native seaweed species listed in the March 2010 Marine Invasive Species Workshop Report based on information provided by seaweed experts.

Dead man's fingers (*Codium fragile*) has 2 different subspecies. *C. fragile* subsp. *californicum* is the west coast subspecies and is native to Alaska and *C. fragile* subsp. *tomentosoides* is considered invasive on the east coast, but has never been reported in Alaska<sup>1</sup>. Also, a specimen collected in Prince William Sound was thought to be the non-native species rockweed (*Fucus cottoni*); however, DNA sequencing has confirmed that *F. cottoni* is a dwarf form of the native species *F. distichus* subsp. *evanescens*<sup>2</sup>. Two non-native seaweed species, wireweed (*Sargassum muticum*)<sup>3</sup> and purple laver (*Porphyra purpurea*)<sup>4</sup> have been introduced in Alaska. *S. muticum* has undergone explosive population growth, likely affecting native seaweeds species and the associated invertebrates and fish in Alaska. The extent that *P. purpurea* may be affecting native species in Alaska is unknown. Non-native species may exhibit explosive population growth long after their initial establishment in a new environment, leading to invasive impacts despite initially being considered benign<sup>5</sup>, and therefore all non-native species should be added to an invasive species watch list.

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<sup>1</sup> See description for *Codium fragile* on the Seaweeds of Alaska website:

<http://www.seaweedsofalaska.com/species.asp?SeaweedID=4>

<sup>2</sup> See description for *Fucus distichus* subsp. *evanescens* on the Seaweeds of Alaska website:

<http://www.seaweedsofalaska.com/species.asp?SeaweedID=241>

<sup>3</sup> See description for *Sargassum muticum* on the Seaweeds of Alaska website:

<http://www.seaweedsofalaska.com/species.asp?SeaweedID=241>

<sup>4</sup> See description for *Porphyra purpurea* on the Seaweeds of Alaska website:

[http://www.algaebase.org/search/species/detail/?species\\_id=101](http://www.algaebase.org/search/species/detail/?species_id=101)

<sup>5</sup> Sakai, A.K., Allendorf, F.W., Holt, J.S., Lodge, D.M., Molofsky, J., Baughman, S., Cabin, R.J., Cohen, J.E., Ellstrand, N.C., McCauley, D.E., O'Neil, P., Parker, I.M., Thompson, J.N. and Weller, S.G. 2001. The population biology of invasive species. *Annu. Rev. Ecol. Syst.* 32:305–332.