SUPPLEMENT

West Indian Ocean

Supplement to the SeagrassNet Worldwide Manual

Submitting data and samples to the SeagrassNet program

Submit all data, samples, photographs, data sheets, etc. to SeagrassNet at UNH and to the website, as directed in the manual. There is no Regional Node Coordinator for the West Indian Ocean at present.

Inquiries should be directed to:

Dr. Frederick T. Short
Director, SeagrassNet
University of New Hampshire
Jackson Estuarine Laboratory
85 Adams Point Road
Durham NH 03824 USA
603 862-5134
fred.short@unh.edu

SEAGRASS SPECIES

Ea *Enhalus acoroides*

- Very long strap-like leaves with inrolled leaf margins
- Thick rhizome with long black bristles and cord-like roots
- Leaves 30-150 cm long

Th *Thalassia hemprichii*

- Small dark spots of tannin cells on leaf
- Thick rhizome with scales between shoots
- Sickle shaped leaves
- Leaves 10-40 cm long

Cs *Cymodocea serrulata*

- Serrated leaf tip
- Leaf blade 4-9mm wide
- Leaves 6-15cm long & often striped
- Triangular shaped leaf sheath

Cr *Cymodocea rotundata*

- Rounded leaf tip
- Narrow leaf blade (2-4mm wide)
- Leaves 7-15 cm long
- Well developed leaf sheath

Hd *Halophila decipiens*

- Leaf blade 1-2.5cm long
- Leaf hairs on both sides
- Leaf margins serrate

Si *Syringodium isoetifolium*

- Leaves cylindrical in cross section
- Leaf tip tapers to a point
- Leaves 7-30cm long

Hm *Halophila minor*

- Less than 4-8 cross veins
- Small oval leaf blades 0.8-1.3 cm long
- No hairs on leaf surface

Ho *Halophila ovalis*

- Leaves have 10 or more cross veins
- No hairs on leaf surface

Tc *Thalassodendron ciliatum*

- Cluster of leaves on an erect stem
- Sickle shaped leaves with serrated tip
- Rhizome woody

Hu *Halodule uninervis*

- Trident leaf tip
- 1 central leaf vein
- Usually pale rhizome, with clean black leaf scars

Hp *Halodule pinifolia*

- Rounded leaf tip
- 1 central leaf vein
- Usually pale rhizome, with clean black leaf scars

Additional Species in the Region

Hw *Halodule wrightii*

- Leaves flat and thin
- Leaf tip with 2 – 3 points
- Rhizome whitish
- Leaves 2 – 22 cm long

Hq *Halophila ovata*

- Oval leaves, similar to *H. ovalis*
- Leaf cross-veins 4 – 8
- Leaf width4 – mm
- Leaf length 8 – 13 mm

Hb *Halophila beccarii*

- 5+ elongated oval leaves arranged in clusters
- Leaves up to 13 mm long, 1 – 2 mm wide
- Short vertical stem between leaf clusters
- Often intertidal

Hn *Halophila spinulosa*

- Many oval leaf pairs along a single stem
- Leaves edges finely serrated
- Wiry rhizomes with stems 30 cm long

Hs *Halophila stipulacea*

- Oval leaves on a short stem
- Large leaf scales at stem base
- Leaves up to 60 mm long, 10 mm wide

Rm *Ruppia maritima*

- Thin strap-like leaves to 25 cm long
- Blades gradually taper to a point
- Flowers and fruits on erect branching stem

Zp *Zostera capensis*

- Strap-like leaves 10 – 115 cm long, 0.5 – 2.5 mm wide
- Persistent leaf sheath
- Mature leaves have indented tip
- Found in east Africa

SeagrassNet = Seagrass Monitoring Network

***Seagrass*Net Field Sampling Form (one sheet per station)** **Indo-Western Pacific Region IX**

Location:	Transect code & no.:	Researchers:	Sampling date and time: e.g., 20 Jan 2004 1400 hrs.
State/Country:	Station (circle one): **A.** Nearshore, **B.** Middle, **C.** Offshore	Comments:	

PARAMETERS	Example	Cross-transect 0-25 m						Cross-transect 26-50 m					
		1	2	3	4	5	6	7	8	9	10	11	12
Quadrat Measures at pre-selected random distances	Quadrat 2	Quadrat	Quadrat	Quadrat	Quadrat	Quadrat	Quadrat	Quadrat	Quadrat	Quadrat	Quadrat	Quadrat	Quadrat
Photograph (1 per quadrat)	√												
Voucher Specimen (1 of each species/Station)	√												
All Species Total % Cover	60												
Species =Hu % Cover	40												
Species = % Cover													
Species = % Cover													
Species = % Cover													
Species =Ea % Cover | Density (Ea density per 25x25 cm quadrat)	20 | 32	|	|	|	|	|	|	|	|	|	|	|	|
Canopy Height (cm) Grazing Evidence? (y/n)	20 y												
Flower/Fruit Count by species	4 Hu 6 Cr												
Leaf Biomass Core Size (m^2)	√ 0.0035												

	Pre-selected Random Distances for 0-25m						Pre-selected Random Distances for 26-50m					
A. Nearshore	2	7	8	16	18	25	26	33	38	40	44	46
B. Middle	9	10	15	17	22	25	28	31	35	37	39	45
C. Offshore	5	7	10	18	19	22	26	34	35	38	43	44

Cross-transect Measures

				Left (0m)		Center (25m)		Right (50m)	
GPS: Latitude	Dist. to edge (m)	° . "	8.6						
Longitude	Dist. to last (m)	° . "	11.2						
Water Depth (m) at time (hrs)		2.35 @ 1524		at		at		at	
Surface sediment observation / sample		fine-sand / yes							

Station Measures

Light -- Hobo (day in - day out)	6Jan - 20Jan	-	Cr - *Cymodocea rotundata*	Hw - *Halodule wrightii*	Hq - *Halophila ovata*	Th - *Thalassia hemprichii*
Water temp. logger (day out)	20Jan		Cs - *Cymodocea serrulata*	Hb - *Halophila beccarii*	Hn - *Halophila spinulosa*	Tc-*Thalassodendron ciliatum*
Salinity (ppt)	25.8		Ea - *Enhalus acoroides*	Hd - *Halophila decipiens*	Hs - *Halophila stipulacea*	Zp - *Zostera capensis*
Tidal Stage (high or low / spring or neap)	high spring		Hp - *Halodule pinifolia*	Hm - *Halophila minor*	Rm - *Ruppia maritima*	Zc - *Zostera capricorni*
			Hu - *Halodule uninervis*	Ho - *Halophila ovalis*	Si -*Syringodium isoetifolium*	Un - Unknown

Region IX species