Supplementary Materials

Table S1. Morphological Characteristics Observed during the Identification of Cyanobacteria from Different Agro Ecological Zones

Cyanobacteria (Genus)	Morphological characteristics used in the identification		
Leptolyngbya	Filamentous, right trichome and curved at the end, cells oblong to oblong -		
	oval, the walls have little compression; around the cell mucilage sheath		
	present which is very thin and hardly visible.		
Phormidium	Filamentous, filaments with distinct sheath, each sheath with single		
	trichome or rarely two, mucilaginous sheath, filaments not aggregated.		
Planktolyngbya	Filamentous; filaments with thin, colorless, firm sheaths. Cells cylindrical,		
	usually longer than wide; end cells rounded and/ or narrowed-rounded.		
	Filamentous with trichome organization and distinct sheath, each sheath		
7 1	with single trichome, without branching. Trichomes straight or slightly		
Lyngbya	waved, thick. Cells very short, always shorter than long. Heterocyst		
	and		
	akinetes absent.		
Anabaena	Filamentous; without branching, heterocyst present; simple trichrome		
	without firm sheath. Heterocysts usually slightly greater than vegetative		
	cells, free filaments. Cells cylindrical, barrel-shaped or spherical.		
Microcoleus	Filaments composed of a gelatinous, fine, usually colorless, homogeneous		
	distinct sheath, in which several trichomes densely packed, looks like		
	rope- like bundle, arranged parallel and sometimes irregularly screw-		
	like/coiled together; number of trichomes changes usually from 2-3 to		
	more than 100		
	within one sheath; filaments simple.		
Oscillatoria	Unbranched filaments (trichomes) in plankton or attached, filamentous		
	with trichome organization, without distinct sheath, without branching,		
	absence of heterocyst and no false branching		

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Gleocapsa	Unicellular-colonial; colonies small in a form of irregular aggregations, mucilaginous, gelatinous, usually wide and concentrically lamellated envelopes, cells situated in colonies irregularly, more or less distant one		
	from another		
Microchaete	Filaments solitary or in small groups, attached to or creeping on the		
	substrate, Sheaths distinct, firm, thin or thick, sometimes slightly		
Microchaete	lamellated, usually colorless, open at the apex. Whole trichomes		
	cylindrical		
	or slightly attenuated towards the ends. Apical cells always rounded Unicellular; spherical cells, sometimes gathered in free-living irregular		
	agglomerations or forming more or less spherical or irregular colonies.		
Chroococcidiopsis	Cells or small groups of cells are enveloped by thin, firm, colorless,		
1	sometimes slightly layered sheaths (envelopes)		
	Unicellular - colonial; colonies gelatinous, sometimes net-like, with		
	numerous cells without own mucilaginous envelopes, irregularly		
Microcystis	distributed within the common slime, sometimes densely agglomerated;		
	Cells spherical or (after division) hemispherical, with homogeneous, blue-		
	green, greyish or yellowish content		
	Filamentous; filaments solitary, free floating, straight or slightly curved or		
Limnothrix	irregularly screw-like coiled, without sheath or with very fine, colorless,		
	facultative sheath.		
	Unicellular; cells solitary or agglomerated in groups, without common		
	mucilage, oval, widely oval or rod-like, sometimes curved, bent or		
Synechococcus	sigmoid, rounded at the ends, with homogeneous content or with several		
	dispersed or solitary polar granules. Thylakoids localized along cell walls.		
	Filament-like involution cells		
	Filaments solitary, more or less straight or slightly waved, free living,		
Dl andreathain	without sheath. Cells slightly shorter than wide; end cells widely rounded		
Planktothrix			
Planktothrix	or slightly narrowed and with thickened outer cell wall or with calyptra.		

Aphanothece	Colonial; colonies many-celled, mucilaginous, with cells irregularly, scarcely		
	or densely arranged through the whole colony. Cells widely oval, oval		
	ellipsoidal or rod-like, straight or slightly curved, with rounded ends. Cells		
	with their own, fine, sometimes concentrically lamellate mucilaginous		
	envelopes		
	Filamentous, forming flat gelatinous colonies. Heterocysts and akinetes		
N 7	present, akinetes arise apoheterocytic, oval, little larger than cells. Filaments		
Nostoc	within colony irregularly coiled and loosely or densely agglomerated,		
Pseudoanabaena	sheaths around trichomes present		
	Filamentous; filaments (trichomes) solitary or agglomerated in very fine,		
	mucilaginous mats, straight or slightly waved or arcuate, simple, usually not		
	very long, without branching, composed of cylindrical cells, without firm		
	sheaths. Cells always longer than wide, end cell cylindrical and rounded at		
	the end		
	Filamentous; filaments long, isopolar, usually waved or coiled, always with		
	more or less thick, firm, colorless sheaths, open at the apex, obligately and		
Plectonema	frequently false-branched. Trichomes isopolar, uniseriate, composed of		
	short cylindrical or barrel-like (discoid) cells (shorter than wide), end cells		
	widely rounded, heterocysts and akinetes absent		
	Filaments heteropolar, simple, solitary in small groups, separated one from		
Calothriy	another, rarely with single, lateral false branches. Sheaths always present,		
Calothrix	usually firm, sometimes lamellated and yellow-brownish colored or funnel-		
	shaped widened at the ends; cells cylindrical or barrel-shaped		
	Unicellular - colonial; only few-celled, more or less spherical, gelatinous		
Chroococcus	mats; mucilage not homogenous, each cell with define sheath; sheath is not		
	vesicular		
	Solitary cells or groups of cells. Cells oval or club-shaped; apical end		
Dermocarpa	widely rounded. Around cells firm, thin sheaths present. Cell content		
	greyish blue-green, olive green or pinkish red, finely granular, always		
	without aerotopes		
	without acrotopes		

Table S2. Abiotic Properties of Different Freshwater Bodies in Three Climatic Zones of Sri Lanka (Values given are the mean of the triplicate samples from all reservoirs of Dry, Intermediate and Wet zone. Superscript letters in each column indicate significant differences (p < 0.05))

Climatic Zone	Water Temperature (°C)	pН	Secchi Depth (cm)
Dry Zone	$31.35 \pm 1.50^{\circ}$	8.20 ± 0.68^{c}	$75.09 \pm 26.31^{\circ}$
Intermediate Zone	29.12 ± 1.82^{b}	$7.58 \pm 0.44^{\rm b}$	$62.60 \pm 11.97^{\rm b}$
Wet Zone	21.37 ± 1.27^{a}	7.41 ± 0.24^{a}	57.00 ± 39.69^{a}