Marine Habitat Classification of Britain and Ireland (22.04)
Overview of changes since MHCBI 15.03
(updated January 2023)

New biotopes (this update focussed on the sublittoral sediment section)

Biotope code	Biotope name
SS.SMu.CFiMu.AtrEch	*Atrina fragilis* and echinoderms on circalittoral mud
SS.SMu.OMu.CalPol	*Calocaris macandreae* and polychaetes in offshore circalittoral mud and sandy mud
SS.SMx.IMx.MedCirr	*Mediomastus fragilis* and cirratulids in infralittoral mixed sediment
SS.SSa.CFiSa.SiphNephVen	*Siphonoecetes*, Nephtyidae polychaetes and venerid bivalves in circalittoral sand
SS.SSa.CMuSa.Ooph	*Ophiura ophiura* on circalittoral muddy sand

Biotopes with expanded descriptions[1] (this update focussed on the sublittoral sediment section)

Biotope code	Biotope name	Changes from previous
SS.SBR.PoR.SspiMx	*Sabellaria spinulosa* on stable circalittoral mixed sediment	Description has been expanded to include variations of the biotope that may appear in sandier sediments with lesser extent of *Sabellaria* reef.
SS.SCS.CCS.Blan	*Branchiostoma lanceolatum* in circalittoral coarse sand with shell gravel	The description has been expanded to include variants of the biotope in deeper circalittoral water with slightly muddy or gravelly sediment characterised by polychaete *Notomastus latericeus* and amphipod *Urothoe marina*. The biotope may also be considered epibiotic overlay of SS.SCS.ICS.MoeVen or SS.SCS.ICS.MedLumVen.
SS.SCS.CCS.MedLumVen	*Mediomastus fragilis*, *Lumbrineris* spp. and venerid bivalves in circalittoral coarse sand or gravel	Description expanded to clarify that in the presence of pebbles, cobbles or shell, the biotope may support encrusting fauna such as hydroids, bryozoans, and encrusting polychaetes.
SS.SCS.CCS.Pkef	*Protodorvillea kefersteini* and other polychaetes in impoverished circalittoral mixed gravelly sand	Description expanded to add that Sabellaria spinulosa can also be found in low numbers.

[1] Six of these biotopes with expanded descriptions have also had an amended name and five have had amended biotope codes

Biotope code	Biotope name	Changes from previous
SS.SCS.CCS.SpiB (previously SS.SCS.CCS.PomB)	*Spirobranchus triqueter* with barnacles and bryozoan crusts on unstable circalittoral cobbles and pebbles (previously *Pomatoceros triqueter* with barnacles and bryozoan crusts on unstable circalittoral cobbles and pebbles)	Description has been expanded to include additional epifaunal community (e.g., *Asterias rubens*, Cerianthus lloydii, etc.). Barnacles may be predominantly observed in shallower variants of the biotope. Species name of *Pomatoceros triqueter* is now *Spirobranchus triqueter*, therefore the code and biotope name were changed to reflect this.
SS.SCS.ICS.HeloMsim	*Hesionura elongata* and *Microphthalmus similis* with other interstitial polychaetes in infralittoral mobile coarse sand	Description redefined to reduce the importance of *Hesionura* and add that the biotope may occur in coarse and mixed sediment.
SS.SCS.ICS.MoeVen	*Moerella* spp. with venerid bivalves in infralittoral gravelly sand	The description was revised to include that variants of the biotope may include the presence of maerl, which may support diverse epifaunal communities and act as a transition between biotopes.
SS.SMu.CFiMu.MegMax	Burrowing megafauna *Maxmuelleria lankesteri* in circalittoral mud	The description was expanded to include variant options for burrows/mud with less abundant or absent seapens.
SS.SMu.CFiMu.SpnMeg	Seapens and burrowing megafauna in circalittoral fine mud	The description was expanded to include variant options for burrow/mud with abundant/common seapens.
SS.SMu.CSaMu.LkorPpel	*Lagis koreni* and *Phaxas pellucidus* in circalittoral sandy mud	The description was expanded to include variants of the biotope recorded from Liverpool Bay, Cardigan Bay, North Wales and the Solway Firth that may be found with reduced abundances or an absence of *Phaxas pellucidus*.
SS.SMu.ISaMu.AmpPlon	*Ampelisca* spp., *Photis longicaudata* and other tube-building amphipods and polychaetes in infralittoral sandy mud	A sentence was added in the description to clarify that in organically enriched areas, the community may be characterised by capitellids and *Mediomastus fragilis*.
SS.SMx.CMx.FluHyd	*Flustra foliacea* and *Hydrallmania falcata* on tide-swept circalittoral mixed sediment	The description was revised to include variants of the biotope in offshore areas with circalittoral mixed sediment with pebbles and gravels that may support encrusting fauna including bryozoans, barnacle *Verruca stroemia* and occasionally *Sabellaria spinulosa*. When Lumbrinerids are present, this may present a

Biotope code	Biotope name	Changes from previous
		transitionary form between this biotope and SS.SCS.CCS.MedLumVen.
SS.SMx.CMx.KurThyMx (previously SS.SMx.CMx.MysThyMx)	*Kurtiella bidentata* and *Thyasira* spp. in circalittoral muddy mixed sediment (previously *Mysella bidentata* and *Thyasira* spp. in circalittoral muddy mixed sediment)	Description has been expanded to clarify that in some sheltered areas, organic enrichment of this biotope increases the occurrence of species such as *Ophryotrochasp*., *Scoloplos* sp., *Mediomastus fragilis*, *Lumbrineris* sp., Capitellids and *Tubificoides pseudogaster*. Species name of *Mysella bidentata* is now *Kurtiella bidentata*, therefore the code and biotope name were changed to reflect this.
SS.SMx.OMx.PoVen	Polychaete-rich deep *Venus* community in offshore mixed sediments	The description was expanded to include coarser variations of the biotope with gravelly sediment with pebbles or cobbles which may support encrusting fauna such as hydroids, bryozoa and polychaetes.
SS.SSa.CFiSa.ApriBatPo	*Abra prismatica*, *Bathyporeia elegans* and polychaetes in circalittoral fine sand	The description was expanded to include variations of the biotope with sparser fauna in medium coarse sand with some gravel in deeper water comprised of annelid worms, brittle stars and crustaceans. In variable gravelly sands with pebbles, bryozoans and *Sabellaria spinulosa* may be present.
SS.SSa.CFiSa.EpusOborApri	*Echinocyamus pusillus*, *Ophelia borealis* and *Abra prismatica* in circalittoral fine sand	The description was expanded to include offshore sandier or gravelly sandy sediment variants of the biotope which may support a wide variety of polychaetes and may represent the transition to the biotope SS.SCS.CCS.Blan.
SS.SSa.CMuSa.AalbNuc	*Abra alba* and *Nucula nitidosa* in circalittoral muddy sand or slightly mixed sediment	The description was expanded to include organically enriched variants of the biotope with higher occurences of amphipods
SS.SSa.CMuSa.AbraAirr	*Acrocnida brachiata* with *Astropecten irregularis* and other echinoderms in circalittoral muddy sand (previously *Amphiura brachiata* with *Astropecten irregularis* and other echinoderms in circalittoral muddy sand)	The description was expanded to include epifaunal species such as *Pagurus* spp., *Astropecten irregularis* and *Corystes cassivelaunus*. Species name of *Amphiura brachiata* is now *Acrocnida brachiata*, therefore the

Biotope code	Biotope name	Changes from previous
		biotope name was changed to reflect this (no biotope code change as the species is still *A. brachiata*).
SS.SSa.IFiSa.NcirBat	*Nephtys cirrosa* and *Bathyporeia* spp. in infralittoral sand	The description was expanded to include outer estuarine variants of the biotope and variants in coarser sediment with more variable fauna.
SS.SSa.IFiSa.TbAmPo	Semi-permanent tube-building amphipods and polychaetes in sublittoral sand	The description of this biotope was expanded to include organically enriched variants related to SS.SMx.CMx.MysThyMx.
SS.SSa.IMuSa.FfabMag	*Fabulina fabula* and *Magelona mirabilis* with venerid bivalves and amphipods in infralittoral compacted fine muddy sand	The description was expanded to include deeper offshore variants of the biotope in which there is reduction in the component species *Fabulina fabula* and *Magelona filiformis* and *Bathypoereia* spp. annelid and nemertean worms may be more common.
SS.SSa.OSa.OfusAfil	*Owenia fusiformis* and *Amphiura filiformis* in offshore circalittoral sand or muddy sand	The description was expanded to include variants of the biotope which may contain high number of *Owenia fusiformis* and *Amphiura filiformis*, but may also include *Arctica islandica* and *Ennucula tenuis*. This variant may be considered a transitionary variant between SS.SSa.OSa.OfusAfil and SS.SMu.CSaMu.AfilKurAnit.
SS.SSa.SSaVS.NcirAm (previously SS.SSa.SSaVS.NcirMac)	*Nephtys cirrosa* and amphipods in variable salinity infralittoral mobile sand (previously *Nephtys cirrosa* and *Macoma balthica* in variable salinity infralittoral mobile sand)	Description has been expanded to clarify that *Macoma balthica* may occur in more stable examples of this biotope, although not in the abundances found in the SS.SMu.ISaMu.NhomMac biotope. The code and biotope name were also changed to remove Mac because it is not as important characterising species as other amphipods.
SS.SMu.CSaMu.AfilKurAnit (previously SS.SMu.CSaMu.AfilMysAnit)	*Amphiura filiformis*, *Kurtiella bidentata* and *Abra nitida* in circalittoral sandy mud	Description has been expanded to clarify that several variants of this biotope can be described in transitionary environments between biotopes. Species name of *Mysella bidentata* is now *Kurtiella bidentata*, therefore the code and biotope name were changed to reflect this.

Biotope code	Biotope name	Changes from previous
SS.SMu.CSaMu.AfilEten (previously SS.SMu.CSaMu.AfilNten)	*Amphiura filiformis* and *Ennucula tenuis* in circalittoral and offshore sandy mud (previously *Amphiura filiformis* and *Nuculoma tenuis* in circalittoral and offshore sandy mud)	Description has been expanded to clarify that collectively several biotopes may form Amphiura dominated components of the offshore muddy sand association. Species name of *Nuculoma tenuis* is now *Ennucula tenuis*, therefore the code and biotope name were changed to reflect this.
SS.SMu.ISaMu.KurAbr (previously SS.SMu.ISaMu.MysAbr)	*Kurtiella bidentata* and *Abra* spp. in infralittoral sandy mud (previously *Mysella bidentata* and *Abra* spp. in infralittoral sandy mud)	Description has been changed to clarify that the biotope may also be compared with similar biotopes such as SS.SSa.CMuSa.AalbNuc, SS.SMx.CMx.KurThyMx or SS.SMu.ISaMu.MelMagThy. Species name of *Mysella bidentata* is now *Kurtiella bidentata*, therefore the code and biotope name were changed to reflect this.

Species name changes that have affected biotope codes/names for sublittoral sediment habitats

- *Pomatoceros triqueter* is now *Spirobranchus triqueter* – affected biotopes (Spi in these codes was previously Pom):
  - SS.SCS.CCS.SpiB (this biotope also included in description expanded table above)
- *Mysella bidentata* is now *Kurtiella bidentata* – affected biotopes (Kur in these codes was previously Mys):
  - SS.SMx.CMx.KurThyMx (this biotope also included in description expanded table above)
  - SS.SMu.CSaMu.AfilKurAnit (this biotope also included in description expanded table above)
  - SS.SMu.ISaMu.KurAbr (this biotope also included in description expanded table above)
- *Laminaria saccharina* is now *Saccharina latissima* – affected biotopes (Slat in these codes was previously Lsac):
  - SS.SMp.KSwSS.SlatCho
  - SS.SMp.KSwSS.SlatGraFS
  - SS.SMp.KSwSS.SlatGraVS
  - SS.SMp.KSwSS.SlatMxVS
  - SS.SMp.KSwSS.SlatR
  - SS.SMp.KSwSS.SlatR.CbPb
  - SS.SMp.KSwSS.SlatR.Gv
  - SS.SMp.KSwSS.SlatR.Mu
  - SS.SMp.KSwSS.SlatR.Sa
- *Nuculoma tenuis* is now *Ennucula tenuis* – affected biotopes (Eten in these codes was previously Nten):
  - SS.SMu.CSaMu.AfilEten (this biotope also included in description expanded table above)
  - SS.SMu.CSaMu.ThyEten

- *Sagartiogeton undatus* is now *Cylista undata* – affected biotopes (Cund in these codes was previously Sund):
  - SS.SMu.ISaMu.CundAasp
- *Parvicardium ovale* is now *Parvicardium pinnulatum* – affected biotopes (Ppin in these codes was previously Pova):
  - SS.SMu.OMu.AfalPpin
- *Venerupis senegalensis* is now *Venerupis corrugata* – affected biotopes (Vcor in these codes was previously Vsen):
  - SS.SMx.IMx.VcorAsquAps
- *Chlamys varia* is now *Mimachlamys varia* – affected biotopes (Mvar in these codes was previously Cvar):
  - SS.SBR.SMus.ModMvar
- *Potamogeton pectinatus* is now *Stuckenia pectinate* – affected biotopes (no code change but biotope name has changed):
  - SS.SMp.Ang.NVC A12
- *Pseudomussium septemradiatum* is now *Pseudomussium peslutrae* – affected biotopes (no code change but biotope name has changed):
  - SS.SMu.OMu.StyPse

Biotope code and name changes in other sections of the classification

Although this classification update was focused on the sublittoral sediment section, species names were automatically updated for all biotopes in the classification. This prompted changes to biotope codes, names and descriptions for rock habitats and littoral sediment. These are summarised below (yellow highlight shows changes). Please, refer to the Lexicon of code elements in the How to Use the Classification document.

Biotope code (v15.03)	Biotope code (v22.04)	Biotope name (v15.03)	Biotope name (v22.04)
CR.HCR.XFa.ByErSp.Sag	CR.HCR.XFa.ByErSp.Cyl	Mixed turf of bryozoans and erect sponges with *Sagartia elegans* on tide-swept ciraclittoral rock	Mixed turf of bryozoans and erect sponges with *Cylista elegans* on tide-swept ciraclittoral rock
CR.LCR.BrAs.NeoPro	CR.LCR.BrAs.NovPro	*Neocrania anomala* and *Protanthea simplex* on sheltered circalittoral rock	*Novocrania anomala* and *Protanthea simplex* on sheltered circalittoral rock
CR.LCR.BrAs.NeoPro.FS	CR.LCR.BrAs.NovPro.FS	*Neocrania anomala* and *Protanthea simplex* on very wave-sheltered circalittoral rock	*Novocrania anomala* and *Protanthea simplex* on very wave-sheltered circalittoral rock

Biotope code (v15.03)	Biotope code (v22.04)	Biotope name (v15.03)	Biotope name (v22.04)
CR.LCR.BrAs.NeoPro.VS	CR.LCR.BrAs.NovPro.VS	*Neocrania anomala*, *Dendrodoa grossularia* and *Sarcodictyon roseum* on variable salinity circalittoral rock	*Novocrania anomala*, *Dendrodoa grossularia* and *Rolandia coralloides* on variable salinity circalittoral rock
CR.MCR.EcCr.FaAlCr.Pom	CR.MCR.EcCr.FaAlCr.Spi	Faunal and algal crusts with *Pomatoceros triqueter* and sparse *Alcyonium digitatum* on exposed to moderately wave-exposed circalittoral rock	Faunal and algal crusts with *Spirobranchus triqueter* and sparse *Alcyonium digitatum* on exposed to moderately wave-exposed circalittoral rock
IR.FIR.SG.CC.BalPom	IR.FIR.SG.CC.BalSpi	*Balanus crenatus* and/or *Pomatoceros triqueter* with spirorbid worms and coralline crusts on severely-scoured vertical infralittoral rock	*Balanus crenatus* and/or *Spirobranchus triqueter* with spirorbid worms and coralline crusts on severely-scoured vertical infralittoral rock
IR.HIR.KSed.LsacChoR	IR.HIR.KSed.SlatChoR	*Laminaria saccharina*, *Chorda filum* and dense red seaweeds on shallow unstable infralittoral boulders or cobbles	*Saccharina latissima*, *Chorda filum* and dense red seaweeds on shallow unstable infralittoral boulders or cobbles
IR.HIR.KSed.LsacSac	IR.HIR.KSed.SlatSac	*Laminaria saccharina* and/or *Saccorhiza polyschides* on exposed infralittoral rock	*Saccharina latissima* and/or *Saccorhiza polyschides* on exposed infralittoral rock
IR.LIR.IFaVS.CcasEle	IR.LIR.IFaVS.CcasEin	*Cordylophora caspia* and *Electra crustulenta* on reduced salinity infralittoral rock	*Cordylophora caspia* and *Einhornia crustulenta* on reduced salinity infralittoral rock
IR.LIR.K.LhypLsac	IR.LIR.K.LhypSlat	Mixed *Laminaria hyperborea* and *Laminaria saccharina* on sheltered infralittoral rock	Mixed *Laminaria hyperborea* and *Saccharina latissima* on sheltered infralittoral rock
IR.LIR.K.LhypLsac.Ft	IR.LIR.K.LhypSlat.Ft	Mixed *Laminaria hyperborea* and *Laminaria saccharina* forest on sheltered upper infralittoral rock	Mixed *Laminaria hyperborea* and *Saccharina latissima* forest on sheltered upper infralittoral rock

Biotope code (v15.03)	Biotope code (v22.04)	Biotope name (v15.03)	Biotope name (v22.04)
IR.LIR.K.LhypLsac.Gz	IR.LIR.K.LhypSlat.Gz	Grazed, mixed *Laminaria hyperborea* and *Laminaria saccharina* on sheltered infralittoral rock	Grazed, mixed *Laminaria hyperborea* and *Saccharina latissima* on sheltered infralittoral rock
IR.LIR.K.LhypLsac.Pk	IR.LIR.K.LhypSlat.Pk	Mixed *Laminaria hyperborea* and *Laminaria saccharina* park on sheltered lower infralittoral rock	Mixed *Laminaria hyperborea* and *Saccharina latissima* park on sheltered lower infralittoral rock
IR.LIR.K.Lsac	IR.LIR.K.Slat	*Laminaria saccharina* on very sheltered infralittoral rock	*Saccharina latissima* on very sheltered infralittoral rock
IR.LIR.K.Lsac.Ft	IR.LIR.K.Slat.Ft	*Laminaria saccharina* forest on very sheltered upper infralittoral rock	*Saccharina latissima* forest on very sheltered upper infralittoral rock
IR.LIR.K.Lsac.Gz	IR.LIR.K.Slat.Gz	Grazed *Laminaria saccharina* with *Echinus*, brittlestars and coralline crusts on sheltered infralittoral rock	Grazed *Saccharina latissima* with *Echinus*, brittlestars and coralline crusts on sheltered infralittoral rock
IR.LIR.K.Lsac.Ldig	IR.LIR.K.Slat.Ldig	*Laminaria saccharina* and *Laminaria digitata* on sheltered sublittoral fringe rock	*Saccharina latissima* and *Laminaria digitata* on sheltered sublittoral fringe rock
IR.LIR.K.Lsac.Pk	IR.LIR.K.SLat.Pk	*Laminaria saccharina* park on very sheltered lower infralittoral rock	*Saccharina latissima* park on very sheltered lower infralittoral rock
IR.LIR.KVS.LsacPhyVS	IR.LIR.KVS.SlatPhyVS	*Laminaria saccharina* with *Phyllophora* spp. and filamentous green seaweeds on variable or reduced salinity infralittoral rock	*Saccharina latissima* with *Phyllophora* spp. and filamentous green seaweeds on variable or reduced salinity infralittoral rock
IR.LIR.KVS.LsacPsaVS	IR.LIR.KVS.SlatPsaVS	*Laminaria saccharina* and *Psammechinus miliaris* on variable salinity grazed infralittoral rock	*Saccharina latissima* and *Psammechinus miliaris* on variable salinity grazed infralittoral rock
IR.LIR.Lag.FcerEnt	IR.LIR.Lag.FcerUlv	*Fucus ceranoides* and *Enteromorpha* spp. on low salinity infralittoral rock	*Fucus ceranoides* and *Ulva* spp. on low salinity infralittoral rock

Biotope code (v15.03)	Biotope code (v22.04)	Biotope name (v15.03)	Biotope name (v22.04)
IR.MIR.KT.LsacT	IR.MIR.KT.SlatT	*Laminaria saccharina* with foliose red seaweeds and ascidians on sheltered tide-swept infralittoral rock	*Saccharina latissima* with foliose red seaweeds and ascidians on sheltered tide-swept infralittoral rock
LR.FLR.CvOv.AudCla	LR.FLR.CvOv.RpurCla	*Audouinella purpurea* and *Cladophora rupestris* on upper to mid-shore cave walls	*Rhodochorton purpureum* and *Cladophora rupestris* on upper to mid-shore cave walls
LR.FLR.CvOv.AudPil	LR.FLR.CvOv.RpurPlac	*Audouinella purpurea* and *Pilinia maritima* crusts on upper and mid-shore cave walls and ceilings	*Rhodochorton purpureum* and *Pleurocladia lacustris* crusts on upper and mid-shore cave walls and ceilings
LR.FLR.Eph.Ent	LR.FLR.Eph.Ulv	*Enteromorpha* spp. on freshwater-influenced and/or unstable upper eulittoral rock	*Ulva* spp. on freshwater-influenced and/or unstable upper eulittoral rock
LR.FLR.Eph.EntPor	LR.FLR.Eph.UlvPor	*Porphyra purpurea* and *Enteromorpha* spp. on sand-scoured mid or lower eulittoral rock	*Porphyra purpurea* and *Ulva* spp. on sand-scoured mid or lower eulittoral rock
LS.LCS.Sh.Pec	LS.LCS.Sh.Ech	*Pectenogammarus planicrurus* in mid shore well-sorted gravel or coarse sand	*Echinogammarus incertae sedis planicrurus* in mid shore well-sorted gravel or coarse sand
LS.LSa.FiSa.Po.Aten	LS.LSa.FiSa.Po.Mten	Polychaetes and *Angulus tenuis* in littoral fine sand	Polychaetes and *Macomangulus tenuis* in littoral fine sand
CR.MCR.CFaVS.HbowEud	CR.MCR.CFaVS.HbowEud	*Halichondria bowerbanki*, *Eudendrium arbusculum* and *Eucratea loricata* on reduced salinity tide-swept circalittoral mixed substrata	*Halichondria bowerbanki*, *Eudendrium arbuscula* and *Eucratea loricata* on reduced salinity tide-swept circalittoral mixed substrata
CR.MCR.EcCr.FaAlCr.Adig	CR.MCR.EcCr.FaAlCr.Adig	*Alcyonium digitatum*, *Pomatoceros triqueter*, algal and bryozoan crusts on wave-exposed circalittoral rock	*Alcyonium digitatum*, *Spirobranchus triqueter*, algal and bryozoan crusts on wave-exposed circalittoral rock

Biotope code (v15.03)	Biotope code (v22.04)	Biotope name (v15.03)	Biotope name (v22.04)
IR.HIR.KFaR.FoR.Dic	IR.HIR.KFaR.FoR.Dic	Foliose red seaweeds with dense *Dictyota dichotoma* and/or *Dictyopteris membranacea* on exposed lower infralittoral rock	Foliose red seaweeds with dense *Dictyota dichotoma* and/or *Dictyopteris polypodioides* on exposed lower infralittoral rock
IR.HIR.KSed.ProtAhn	IR.HIR.KSed.ProtAhn	*Polyides rotundus*, *Ahnfeltia plicata* and *Chondrus crispus* on sand-covered infralittoral rock	*Polyides rotunda*, *Ahnfeltia plicata* and *Chondrus crispus* on sand-covered infralittoral rock
IR.LIR.KVS.Cod	IR.LIR.KVS.Cod	*Codium* spp. with red seaweeds and sparse *Laminaria saccharina* on shallow, heavily-silted, very sheltered infralittoral rock	*Codium* spp. with red seaweeds and sparse *Saccharina latissima* on shallow, heavily-silted, very sheltered infralittoral rock
IR.LIR.Lag.ProtFur	IR.LIR.Lag.ProtFur	*Polyides rotundus* and/or *Furcellaria lumbricalis* on reduced salinity infralittoral rock	*Polyides rotunda* and/or *Furcellaria lumbricalis* on reduced salinity infralittoral rock
LR.FLR.Rkp.G	LR.FLR.Rkp.G	Green seaweeds (*Enteromorpha* spp. and *Cladophora* spp.) in shallow upper shore rockpools	Green seaweeds (*Ulva* spp. and *Cladophora* spp.) in shallow upper shore rockpools
LS.LMp.LSgr.Znol	LS.LMp.LSgr.Znol	*Zostera noltii* beds in littoral muddy sand	*Zostera noltei* beds in littoral muddy sand
LS.LSa.St.MytFab	LS.LSa.St.MytFab	*Mytilus edulis* and *Fabricia sabella* in littoral mixed sediment	*Mytilus edulis* and *Fabricia stellaris* in littoral mixed sediment
M.AtLB.Mx.SurOph.OphCer	M.AtLB.Mx.SurOph.OphCer	*Ophiomusium lymani* and cerianthid anemone assemblage on Atlantic lower bathyal mixed sediment	*Ophiomusa lymani* and cerianthid anemone assemblage on Atlantic lower bathyal mixed sediment