

**Appendix 9. Species biology and sensitivity key information *pro forma*. (September 1999 onwards)****Scientific name (Authority and Date)****Common name(s)****TAXONOMY**

- 1. Information researched by**
- 2. Information entered by**
- 3. Information refereed by**
- 4. Date last updated**
- 5. MCS / Ulster Museum species code**
- 6. Taxonomic classification**
  - Phylum**
  - Subphylum**
  - Superclass**
  - Class**
  - Subclass**
  - Order**
  - Suborder**
  - Family**
  - Subfamily**
  - Genus**
  - Species**
  - Subspecies / variety / form**
- 7. English equivalent for each taxonomic category**
- 8. Recent synonyms (since 1950) with authorities and dates**
- 9. General description**
- 10. Key identification features**
- 11. Images [with description, holder and photographer]**
- 12. Additional information**
- 13. Key references**

**GENERAL BIOLOGY (Larval)**

- 1. Information researched by**
- 2. Information entered by**
- 3. Information refereed by**
- 4. Date first entered**
- 5. Typical abundance in Britain** High / Moderate / Low / Very low densities / Field not researched / No information found / Data deficient / Not relevant.
- 6. Typical body size range (units)**
- 7. Mobility / Attachment** Swimmer / Crawler / Burrower / Drifter / Temporary attachment / Permanent Attachment / Field not researched / No information found / Data deficient / Not relevant.
- 8. Sociability** Solitary / Gregarious / Colonial / Field not researched / No information found / Data deficient / Not relevant.
- 9. Environmental position** Epibenthic/Epilithic/Epiphytic/Epizoic/Epifaunal/floral / Infaunal / Interstitial / Demersal / Pelagic / Neustonic/Pleustonic/Field not researched / No information found / Data deficient / Not relevant.
- 10. Growth form** See Appendix 4.

- 11. Body flexibility** High ( $>45^\circ$ ) / Low (10 – 45°) / None ( $<10^\circ$ )
- 12. Feeding method** Photoautotroph, Chemoautotroph/Active/passive suspension, Surface/subsurface deposit, active /passive carnivore, active/passive omnivore, herbivore, scavenger, symbiont contribution, parasite/Field not researched / No information found / Data deficient / Not relevant.
- 13. Typically feeds on?**
- 14. Is the species toxic?** Yes / No / Field not researched / No information found / Data deficient / Not relevant.
- 15. Further toxicity information**
- 16. Mode of life – Dependent on** Independent, Parasite on/in, Mutualist on/in/with, Inquilinist on/in/with, Commensal on/in/with, Field not researched, No information found, Data deficient, Not relevant.
- Mode of life – Supports** Host for / Field not researched / No information found / Data deficient / Not relevant
- 17. Additional Information.**
- 18. Key references**

### GENERAL BIOLOGY (Adult)

- 1. Information researched by**
- 2. Information entered by**
- 3. Information refereed by**
- 4. Date first entered**
- 5. Typical abundance in Britain** High / Moderate / Low / Very low densities / Field not researched / No information found / Data deficient / Not relevant.
- 6. Typical male and female body size range (units)**
- 7. Male and female size at maturity (units)**
- 8. Growth rate (units)**
- 9. Mobility / Attachment** Swimmer / Crawler / Burrower / Drifter / Temporary attachment / Permanent Attachment / Field not researched / No information found / Data deficient / Not relevant.
- 10. Sociability** Solitary / Gregarious / Colonial / Field not researched / No information found / Data deficient / Not relevant.
- 11. Environmental position** Epibenthic/Epilithic/Epiphytic/Epizoic/Epifaunal/floral / Infaunal / Interstitial / Demersal / Pelagic / Neustonic/Pleustonic/Field not researched / No information found / Data deficient / Not relevant.
- 12. Growth form** See Appendix 3
- 13. Body flexibility** High ( $>45^\circ$ ) / Low (10 – 45°) / None ( $<10^\circ$ )
- 14. Feeding method** Photoautotroph, Chemoautotroph/Active/passive suspension, Surface/subsurface deposit, active /passive carnivore, active/passive omnivore, herbivore, scavenger, symbiont contribution, parasite/Field not researched / No information found / Data deficient / Not relevant..
- 15. Typically feeds on?**
- 16. Is the species toxic?** Yes / No / Field not researched / No information found / Data deficient / Not relevant.
- 17. Further toxicity information**
- 18. Mode of life – Dependent on** Independent, Parasite on/in, Mutualist on/in/with, Inquilinist on/in/with; Commensal on/in/with; Field not researched / No information found / Data deficient / Not relevant.
- Mode of life – Supports** Host for; Field not researched / No information found / Data

deficient / Not relevant.

**19. Additional Information.**

**20. Key references**

**GEOGRAPHICAL DISTRIBUTION AND HABITAT PREFERENCES (larval)**

1. Information researched by
2. Information entered by
3. Information refereed by
4. Date first entered
5. Geographical Distribution Map and text description
6. Global distribution Map and text description
7. Habitat preferences
  - Major
    - Physiographic
    - Biological zone
  - Component
    - Substratum
    - Wave exposure
    - Tidal stream strength
    - Depth range in metres
    - Salinity
    - Other
8. Resident / Migratory Resident /non migratory, Seasonal feeding, Seasonal reproduction, Seasonal environmental, Diel, Passive, Active, Field not researched / No information found / Data deficient / Not relevant.
9. Additional information
10. Key references

**GEOGRAPHICAL DISTRIBUTION AND HABITAT PREFERENCES (Adult)**

1. Information researched by
2. Information entered by
3. Information refereed by
4. Date first entered
5. Geographical distribution Map and text description
6. Global distribution Map and text description
7. Habitat preferences
  - Major
    - Physiographic
    - Biological zone
  - Component
    - Substratum
    - Wave exposure
    - Tidal stream strength
    - Depth range in metres
    - Salinity
    - Other
8. General habitat information
9. Resident / Migratory Resident /non migratory, Seasonal feeding, Seasonal reproduction, Seasonal environmental, Diel, Passive, Active, Field not researched / No information found / Data deficient / Not relevant.

- 10. Native species** Yes / No / Field not researched / No information found /  
Data deficient / Not relevant.
- 11. Origin if not native**
- 12. Date of arrival if known**
- 13. Additional information**
- 14. Key references**

### REPRODUCTION

- 1. Information researched by**
- 2. Information entered by**
- 3. Information refereed by**
- 4. Date first entered**
- 5. Life-span (units):** <1 / 1-2 years / 2-5 years / 5-10 years / 10-20 years / 20-100 years / 100+ years / Field not researched / No information found / Data deficient / Not relevant / See additional information.
- 6. Age at maturity (units)**
- 7. Generation time (units)**
- 8. Reproductive type** Budding, parthenogenesis, fission, Permanent hermaphrodite, Protandrous hermaphrodite, Protogynous hermaphrodite, Gonochoristic, Metagametic / Gamete type/ Field not researched / No information found / Data deficient / Not relevant / See additional information.
- 9. Frequency of reproduction** Semelparous, <biannual, biannual episodic, biannual protracted, annual episodic, annual protracted.
- 10. Fecundity (no. of eggs / young)** 1 / 2-10 / 11-100 / 100 – 1,000 / 1,000 – 10,000 / 10,000 – 100,000 / 100,000 – 1,000,000 / 1,000,000+ / Field not researched / No information found / Data deficient / Not relevant / See additional information.
- 11. Developmental mechanism** Planktotrophic / Lecithotrophic / Direct Development / Ovoviviparous / Viviparous (Parental Care) / Viviparous (No Care) / Field not researched / No information found / Data deficient / Not relevant.
- 12. Larval settling time** <1 day / 1 day / 2-10 days / 11-30 days / >30 days / Field not researched / No information found / Data deficient / Not relevant.
- 13. Dispersal potential** <10m / 10-100m / 100-1000m / >1000m / Field not researched / No information found / Data deficient / Not relevant.
- 14. Time of first gamete release**
- 15. Time of last gamete release**
- 16. Additional information**
- 17. Key references**

**SENSITIVITY (Larval)**

1. Information researched by
2. Information entered by
3. Information refereed by
4. Date first entered
5. Sensitivity to factors:

<b>Physical factors</b>	Substratum loss
	Smothering
	Suspended sediment
	Desiccation
	Changes in emergence regime
	Changes in water flow rate
	Changes in temperature
	Changes in turbidity
	Changes in wave exposure
	Noise
	Visual presence
	Abrasion and physical disturbance
	Displacement
<b>Chemical factors</b>	Synthetic compounds
	Heavy metals
	Hydrocarbons
	Radionuclides
	Changes in nutrient levels
	Changes in salinity
	Changes in oxygenation
<b>Biological factors</b>	Introduction of microbial pathogens
	Introduction of non-native species and translocation
	Selective extraction of this species
	Selective extraction of other species

6. Evidence / Confidence High, Moderate, Low, Very low, Not relevant
7. Additional information
8. Key references

**SENSITIVITY (Adult)**

1. Information researched by
2. Information entered by
3. Information refereed by
4. Date first entered
5. Sensitivity to factors See table above for factors
6. Recoverability following removal of factor See table above for factors
7. Confidence
8. Additional information
9. Key references

**IMPORTANCE**

10. Information researched by
11. Information entered by

12. Information refereed by

13. Date first entered

**Marine Natural Heritage Importance**

14. Legislation

Protected status or relevance under directives and conventions

Berne

CITES

EC Habitats Directive

W&C 1981 Act

NI Act

UK Biodiversity Action Plans

IUCN categories

Other

15. National status Is the species nationally rare or scarce?

**Biotope or Ecosystem Importance**

16. Does the species create space in assemblage? Little / Moderate / Lots / No / Field not researched / No information found / Data deficient / Not relevant.

17. Does the species occupy space and exclude? Little / Moderate / Lots / No / Field not researched / No information found / Data deficient / Not relevant.

18. Does the species provide structure Substratum / Crevices / Shelter / No / Field not researched / No information found / Data deficient / Not relevant.

19. Does the species provide a unique food source? Yes / No / Field not researched / No information found / Data deficient / Not relevant.

20. For What?

**Commercial Importance**

21. Utilisation

Medicinal use

Yes / No / Field not researched / No information found / Data deficient / Not relevant.

Trade use

Aquaculture use

Harvested (targeted)

Harvested (by-catch)

Curio use

Research use

Culinary use

Other

22. Management measures None, Quota or take limited by numbers, Quota or take limited by effort, Restriction of movement of this species, Restriction of movement of host species, technical restriction in methods of collection, habitat maintenance, habitat enhancement, reintroduction, ex-situ breeding, culling.

23. Additional Information

24. Key references