## Diagram of towing methods recommended by the Guidelines 1 Wind speed: less than 5m/s 1 Wave height: **1**Beaufort scale: Manta net with flow Neuston net with flow less than 0.5m less than 3 meter meter Cod end **Sea conditions** as calm as possible 2 Away from vessel to avoid influences of wake. 7 Vesse **Mesh openings** Ca. 0.3mm **Net type Neuston net or** Manta net Trawl sweep area 3 about 1,000 m<sup>2</sup> (corresponding to 200-**4** Vessel speed 500 m<sup>3</sup> of filtered water 1~3knots \*When using a volume) small fishing boat, 1-2 knots **5** Tow duration **Approximately 20 min.**

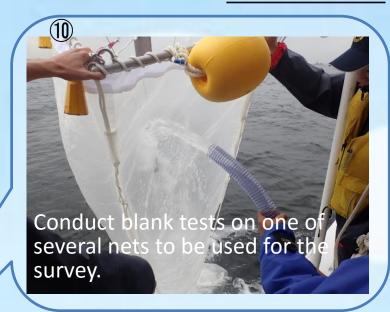
Avoid unfavorable timing and conditions, such as high concentrations of natural particles or organisms.







## **Notification**





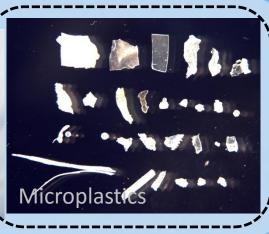
11

Ship's side

It is important to keep the immersion depth as constant as possible.







Conduct sampling at the side of the vessel to avoid influence of the wake.

(Keep away from the vessel as much as possible)

## ガイドラインの曳網方法の概要図



<sup>①</sup>風速: 5m/s以下

① 波高: 0.5m 以下

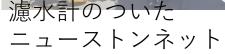
<sup>(1)</sup>ビューフォート スケール: 3以下

③**曳網面積:約1,000 m²** 

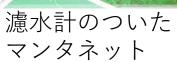
(200-500 m<sup>3</sup>の

濾水量に相当)









コッドエンド



**②**曳波の影響がない ように船から離す



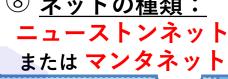
ニューストンネット

④ <u>船速</u>:

1~3ノット

※小型船舶の場 合は1~2ノット

⑤ <u>曳網時間</u>: 約 20 分



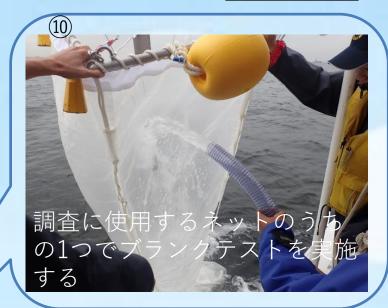
⑤ 高濃度の天然由来の粒子や生物などが多くある場合などの好ましくない タイミングと条件を避けてサンプリングを行う







## 注意事項





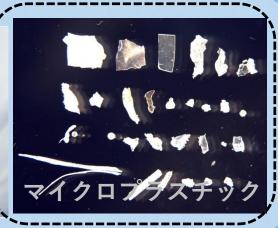


舷側での曳網

沈水深を可能な限り一定に保つことが重要







② 曳波の影響を避けるため、 船の側面でサンプリングを 実施するのがよい。 (船から可能な限り離す)