CLAIMS

1. A remote operation centre (100) for monitoring a vessel, characterized in that the remote operation centre (100) comprises:

a set of speakers (110) having one or more speakers; and

a controller (120), comprising:

an input unit (121), configured to receive at least one microphone signal from at least one on-board directional microphone of an array of on-board directional microphones;

a processing unit (122), configured to analyze the at least one microphone signal received and to generate speaker-specific directional output signals based on the analysis; and

an output unit (123), configured to send the speaker-specific directional output signals generated to the one or more speakers of the set of speakers (110).

2. The remote operation centre (100) according to claim 1, wherein the processing unit (122) is further configured to perform the analyzing of the at least one microphone signal received by determining the direction of a sound represented by the at least one microphone signal received.

3. The remote operation centre (100) according to claim 1, wherein the processing unit (122) is further configured to perform the analyzing of the at least

one microphone signal received by identifying a source object of a sound represented by the at least one microphone signal received.

4. The remote operation centre (100) according to claim 3, wherein the source object comprises another vessel, and the identifying of the source object comprises at least one of identifying the other vessel and identifying a vessel type of the other vessel.

5. The remote operation centre (100) according to claim 3, wherein the processing unit (122) is communicatively connected to a database comprising identification information on predetermined source objects, and the processing unit (122) is further configured to perform the identifying of the source object by utilizing the identification information.

6. The remote operation centre (100) according to claim 5, wherein the identification information comprises information on at least one of: vessel propulsion types, vessel hull forms, vessel caused wave patterns, vessel engine sounds, or vessel horn sounds.

7. The remote operation centre (100) according to claim 1, wherein a sound represented by the at least one microphone signal received comprises ambient sound captured from the surroundings of the vessel.

8. The remote operation centre (100) according to claim 1, wherein the processing unit (122) is further

configured to generate, based on the analysis, a visual indicator signal indicating a source object of a sound represented by the at least one microphone signal received.

9. The remote operation centre (100) according to claim 8, wherein the visual indicator signal further indicates a direction of movement of the source object.

10. The remote operation centre (100) according to claim 8, wherein the remote operation centre (100) further comprises a display arrangement (130), and the output unit (123) is further configured to send the visual indicator signal generated to the display arrangement (130).

11. The remote operation centre (100) according to claim 1, wherein the input unit (121) is further configured to receive one or more radio communication channel signals of a vessel radio communication system, and the output unit (123) is further configured to send the one or more radio communication channel signals as directional radio output signals to one or more speakers of the set of speakers (110) such that each radio communication channel is reproduced from a different direction.

12. The remote operation centre (100) according to claim 1, wherein the processing unit (122) is further configured to determine a priority level for each signal to be sent to the one or more speakers of the

set of speakers (110) and control the volume of the signals based on the determined priority levels.

13. A sound system (200) for monitoring a vessel (210), comprising an array (211) of on-board directional microphones and the remote operation centre (100) according to claim 11.

14. The sound system (200) according to claim 13, wherein at least a portion of the array (211) of the on-board directional microphones is arranged under the sea level.

15. The sound system (200) according to claim 13, wherein at least a portion of the array (211) of the on-board directional microphones is arranged above the sea level.

16. The sound system (200) according to claim 13, wherein the sound system (200) further comprises a radio communication system (212).

17. The remote operation centre (100) according to claim 2, wherein the processing unit (122) is further configured to perform the analyzing of the received at least one microphone signal by identifying a source object of a sound represented by the received at least one microphone signal.

18. The remote operation centre (100) according to claim 4, wherein the processing unit (122) is communicatively connected to a database comprising

identification information on predetermined source objects, and the processing unit (122) is further configured to perform the identifying of the source object by utilizing the identification information.

19. The remote operation centre (100) according to claim 18, wherein the identification information comprises information on at least one of: vessel propulsion types, vessel hull forms, vessel caused wave patterns, vessel engine sounds, or vessel horn sounds.

20. The remote operation centre (100) according to claim 2, wherein a sound represented by the received at least one microphone signal comprises ambient sound captured from the surroundings of the vessel.