Transport Processes of Radionuclides in the Japan Sea Obtained by JAEA's Expeditions

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Fig. 4 Distribution of the ^{137}Cs inventory in middle-deep layers of seawater between 300 to 1,500 m depths in the Japan Sea.

Contribution to Leading-Edge Medical Technology

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Fig. 1 The Process flow of dosimetry by JCDS.

JCDS creates a patient's 3D model using patient's medical images. Doses are determined by calculation with Monte-Carlo transport code. Optimum conditions for irradiation are identified based on the calculation results.

Fig. 2 Patient immobilization method using laser beams.

Laser beams are directed at where points on the patient's face such as nasal apex, eyes, and ears should be. By aligning the actual patient's head with these beams, it is fixed accurately to the irradiation position.