The evaluation criteria of Japan Agency for Marine-Earth Science and Technology (JAMSTEC) and related indicators (Draft)

| Item | | Evaluation criteria | Related Indicator |
|---|--|---|--|
| III-1. Promotion of fundamental R&D in marine science and technology | (1) R&D for situational awareness of global environmental and forecast of changes | Is R&D for the policy positioned as Basic Plan on Ocean Policy promoted based on Mid to Long-term Objectives, and Mid to Long-Term Plans devised strategically produced big results with scientific significance in view of the international standard? Did the obtained outcomes offered to the global community and the country, and did they contributed to policy making? Was the R&D management to maximize research and development outcomes planned appropriately? | (Evaluation indicator) Progress of the R&D set to Mid to Long-term Objectives, and Mid to Long-Term Plans Specific research and development outcomes Contribution to the global community and the national government Management concerning the progress of R&D e (Monitoring indicator) No. of papers published in academic paper magazines Indexes for the quality of papers (No. of papers cited) |
| | | | •No. of collaborative researches e |
| | (2) R&D for sustainable and effective utilization of marine resources | Is R&D for the policy positioned as Basic Plan on Ocean Policy promoted, and based on Mid to Long-term Objectives, and Mid to Long-Term Plan devised strategically produced big results with scientific significance? Are obtained results offered to the industry and promotion of their industrial use planned? Is the R&D management to maximize research and development outcomes planned appropriately? | (Evaluation indicator) Progress of the R&D set to Mid to Long-term Objectives, a Mid to Long-Term Plans Specific research and development outcomes Status of social returns of the R&D outcomes Management concerning the progress of R&D etc (Monitoring indicator) No. of papers published in academic paper magazines Indexes for the quality of papers (No. of papers cited) No. of collaborative researches No. of patent applications |
| | (3) R&D on earthquakes and volcanoes in sea areas | ○Is the R&D for the policy positioned as Basic Plan on Ocean Policy promoted based on Mid to Long-term Objectives, and Mid to Long-Term Plan devised strategically, produced big results with | (Evaluation indicator) •Progress of the R&D set to Mid to Long-term Objectives, and Mid to Long-Term Plans •Specific research and development outcomes |

| Item | Evaluation criteria | Related Indicator |
|------------------------|---|--|
| | scientific significance? | •Contribution to long-term evaluations of earthquake occurrence |
| | \bigcirc Are obtained outcomes offered to the national | zones performed by national government. |
| | government and related organizations, and | •Management concerning the progress of R&D etc. |
| | contributed to long-term evaluation of earthquake | |
| | occurrence zone? | (Monitoring indicator) |
| | ○Is the R&D management to maximize research and | •No. of papers published in academic magazines |
| | development outcomes planned appropriately? | •Indexes for quality of papers (No. of papers cited) |
| | | •No. of collaborative researches etc. |
| (4) R&D for the | \bigcirc Is the R&D for the policy positioned as Basic Plan | (Evaluation indicator) |
| enhancing and | on Ocean Policy promoted based on Mid to | •Progress of the R&D set to Mid to Long-term Objectives, ands |
| optimizing marine | Long-term Objectives, and Mid to Long-Term Plans | Mid to Long-Term Plans |
| geophysics information | devised strategically produced big results of | •Progress of the R&D set to Mid to Long-term Objectives, and |
| using mathematical | scientific significance? | Mid to Long-Term Plans |
| method | OAre improvements/operations of the information | •Status of information linkage with related organizations through |
| | infrastructure accomplished effectively based on Mid | effective operations of information infrastructures |
| | to Long-term Objectives, and Mid to Long-Term | • Status of the social returns of R&D outcomes |
| | Plan, and is the cooperation with related domestic | •Management concerning the progress of R&D etc. |
| | and foreign organizations progressing? | (Monitoring indicator) |
| | OAre obtained outcomes dispatched to the society, | •No. of papers published in academic paper magazines |
| | and is the contribution to the approach for solution to | •Indexes for quality of papers (No. of papers cited) |
| | the problem planned? | •No. of problems using information infrastructure, and the No. of |
| | \bigcirc Is the R&D management to maximize research and | registered R&D outcomes |
| | development outcomes planned appropriately? | •No. of collaborative researches etc. |
| (5) Challenging and | ○Is the challenging and creative R&D promoted, | (Evaluation indicator) |
| original R&D and | looking ahead to the future based on Mid to | •Progress of the R&D set-to Mid to Long-term Objectives, and |
| development of | Long-term Objectives, Mid to Long-Term Plan | Mid to Long-Term Plans |
| advanced fundamental | strategically, and are the big results with scientific | •Specific research and development outcomes (originality, |
| technologies | significance obtained in view of the international | innovativeness, leading characteristics, expandability etc.) |
| | standard? | •Operation of the platform for marine survey/observation and |
| | \bigcirc Was Maximization of R&D achievements of the Is | acquisition of the ability for exploration/investigation for diverse |
| | the agency planned by the advancement of the ocean | marine environment |

| Item | | Evaluation criteria | Related Indicator | |
|--|--|---|---|--|
| | | study/observation technology and the effective operation of the platform for ocean study/observation feasible? OIs the R&D management to maximize research and development outcomes planned appropriately? | Management concerning the progress of R&D etc. (Monitoring indicator) No. of papers published in academic paper magazines Indexes for the quality of papers (No. of papers cited) No. of collaborative research No. of patent application No. of days for ship operation (use in the institute and public offering problem) etc. | |
| III-2 Formation of a core institution for marine science and technology | (1) Promotion of social returns of the R&D outcomes through closer collaboration with related organizations | ○Has the Agency promoted the means of strengthening cooperation with related domestic and foreign organizations as a core institution in the field of marine science and technology, and was the promotion of the social returns of the R&D outcomes planned in advance? | (Evaluation indicator) Linkage with research organizations related to domestic industry-university-government circles, and approach for the use and application of intellectual properties . and their outcomes Linkage with overseas research organizations, and approach for participation in planning international framework and its outcomes Approach for acquisition of sponsored funds and its outcomes Upbringing young human resources in the field of marine science and technology, and approach for the expansion of the range of human resources and their outcomes Approach for public information and outreach activities and their outcomes Approach for public information and outreach activities and their outcomes Monitoring indicator) No. of papers published in academic magazines, and No. of patent applications, and No. of possessions of intellectual properties and No. of licensing approaches Amount and number of sponsored funds obtained No. of young researchers accepted from domestic and foreign research organizations, and No. of research students, and internship students accepted No. of plans in PR media and response such as access to them etc. | |

| I | tem | Evaluation criteria | Related Indicator |
|---|---------------------------|---|--|
| | (2) Promotion of | ODid the Agency contribute to improvement of the | (Evaluation indicator) |
| | sharing large research | standard for the marine science and technology and | •In service of the R&D infrastructure, and the approach for |
| | facilities and data, etc. | development of the scientific study in our country by | promotion of in-service data and the necessary outcomes through |
| | | planning the provision of the R&D infrastructure and | in-service provisions. |
| | | expansion of the use of the data/sample ? | •Navigation/operation of ships relating to scientific study and |
| | | | relevant outcomes obtained through them |
| | | | •Provision of various data/samples and the use and application of |
| | | | them etc. |
| | | | (Monitoring indicator) |
| | | | •No. of days of operation of the vessel in entrusted voyage (day) |
| | | | •No. of public offering projects in earth simulator (number) |
| | | | •No. of days of operation of the vessel relating to scientific study |
| | | | (day), and No. of presentation of the research outcome |
| | | | •No. of open public data in Data and Sample Research System for |
| | | | the Whole Cruise Information in JAMSTEC etc. |

Note) The "Evaluation indicator" is a standard indicator for evaluation/rating, and the "Monitoring indicator" is a necessary indicator for grasping the exact fact contributing to an appropriate and rigorous evaluation process.