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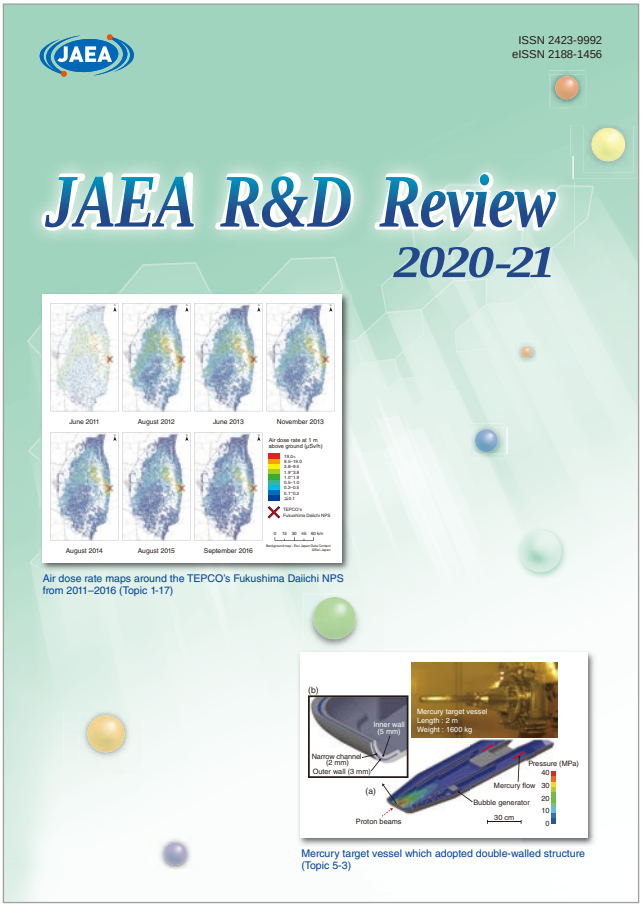
About the Cover Design

The cover design uses white hexagons that are similar to the pattern on the shell of a tortoise, which represents an ancient Japanese symbol of the desire for long life. Coincidentally, this shape is also that of the core fuel assemblies in the high-temperature engineering test reactor, “HTTR”.

The top left figure shows the air dose rate maps around the TEPCO’s Fukushima Daiichi Nuclear Power Station (NPS), from 2011–2016. The bottom right figure shows the mercury target vessel which adopted double-walled structure.

The air dose rate maps were created based on measurements collected using survey meters at thousands of points that were non-paved and less artificial disturbance. More details can be found on page 30 in Chapter 1, Topic 1-17.

The interior of the mercury target vessel at the time of proton beam injection is illustrated schematically. The vessel adopts the double-walled structure with a narrow mercury channel for the high-pressure region at the front part of the vessel. More details can be found on page 58 in Chapter 5, Topic 5-3.



Other Publications

Industrially applicable patented technology and know-how within the intellectual property owned by JAEA can be found on “JAEA Technology Seeds”.

The activity status of the whole agency, including CSR, can be found in the annual report, “Japan Atomic Energy Agency 2020 (Business Report FY2019)”.