The Moroccan environmental signature of the Fukushima accident

Tahar EL KHOUKHI
CNESTEN/PSS/USE

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USE is the Environmental Monitoring Unit in charge of executing radiological environmental monitoring program around CENM’s site accommodating TRIGA II Research Reactor.

The objective of USE is to protect human health from the adverse effects resulting from any radioactive contamination. It delivers periodic reports intended to the regulatory authorities.

In parallel, as technical tool for the Moroccan government, USE is called to intervene at national scale in case of emergency. It was the case in 1998 after Spanish Algeciras $^{137}$Cs emission accident, in 2001 with suspected radioactive release from the British Tireless Submarine and recently the environmental survey campaign executed after the Fukushima accident.

USE started radioactivity measurement program on 21/3/2011 using High Purity Germanium gamma spectrometry to analyze aerosols, vegetation, surface and rain water, milk and soil samples.
Conclusion

During this campaign, only traces of $^{131}$I were detected,
The activities detected in Morocco were in the range of those detected in neighbouring countries,
The dosimetric calculations showed that the $^{131}$I activities detected did not constitute a health hazards for the population.

Thank you