



Delibera n. 58/2022
25 Febbraio 2022

Oggetto: Data Provisioning Agreement between the Istituto Nazionale di Geofisica e Vulcanologia (the Supplier) and the European-Mediterranean Seismological Centre (EMSC)

IL CONSIGLIO DI AMMINISTRAZIONE

VISTO il Decreto legislativo 29 settembre 1999, n. 381, concernente la costituzione dell'Istituto Nazionale di Geofisica e Vulcanologia (INGV);

VISTO il Decreto Leg.vo 25/11/2016, n. 218, concernente "Semplificazione delle attività degli Enti Pubblici di Ricerca ai sensi dell'art. 13 della Legge 7/08/2015, n. 124";

VISTO lo Statuto dell'INGV, approvato con Delibera del Consiglio di Amministrazione n. 114/2020 del 19 giugno 2020, emanato con Decreto del Presidente n. 78/2020 del 27/10/2020, pubblicato sul Sito WEB istituzionale – Avviso di emanazione di cui al Comunicato su Gazzetta Ufficiale della Repubblica Italiana - Serie generale - n. 264 del 24 ottobre 2020, in particolare, l'art. 8, comma 6, lettera f), il quale prevede che il CdA "*omissis....delibera la partecipazione a società, fondazione e consorzi, nonché la stipulazione di accordi con organismi nazionali, europei e internazionali*";

VISTO il Regolamento di Organizzazione e Funzionamento dell'INGV, emanato con Decreto del Presidente n. 36/2020 del 22/04/2020, pubblicato sul Sito WEB istituzionale e in particolare, l'art. 29 il quale disciplina le *Collaborazioni con soggetti esterni*, stabilendo al primo comma che: "*I rapporti di collaborazione nell'attività di ricerca tra l'Ente e soggetti pubblici e privati, italiani e stranieri sono regolati attraverso contratti aventi come riferimento di massima la seguente tipologia: protocolli d'intesa, accordi di programma quadro, convenzioni operative*";

VISTO il Regolamento del Personale, emanato con Decreto del Presidente n. 12/2021 del 25/02/2021, pubblicato sul Sito WEB istituzionale;

VISTO il Regolamento di Amministrazione, Contabilità e Finanza, adottato con Delibera del Consiglio di Amministrazione n. 145/2020 del 22 luglio 2020, ed emanato con Decreto del Presidente n. 75/2020 del 21 ottobre 2020;

VISTO il Decreto del Ministro dell'Università e Ricerca n. 229 del 19/2/2021, con il quale il Prof. Carlo DOGLIONI è stato nominato Presidente dell'INGV;

VISTO il Decreto del Ministro dell'Università e Ricerca n. 1200 del 30/12/2019, con il quale la Prof.ssa Francesca BOZZANO e il Prof. Roberto SCARPA sono stati nominati Consiglieri di Amministrazione dell'INGV;

VISTO il Decreto del Ministro dell'Università e Ricerca n. 986 del 24/10/2019, con il quale il Dott. Fabio FLORINDO e il Dott. Gilberto SACCOROTTI sono stati nominati Consiglieri di Amministrazione dell'INGV;



VISTO lo schema del Data Provisioning Agreement between the Istituto Nazionale di Geofisica e Vulcanologia (the Supplier) and the European-Mediterranean Seismological Centre (EMSC);
CONSIDERATO che l'EMSC (Euro-Mediterranean Seismological Center) sta formalizzando il riconoscimento dei dati parametrici che vengono condivisi con il loro centro dalle reti sismologiche partecipanti;
CONSIDERATO che questi identificatori di prodotto servono principalmente allo scopo di supportare la citazione e il riferimento appropriati del prodotto (ad es. in pubblicazioni o altri lavori) e la reperibilità generale, ovvero dovrebbero essere risolvibili e univoci;
CONSIDERATO che l'attività da espletare rientra tra i compiti scientifici e istituzionali dell'INGV;
SENTITI il Direttore di Dipartimento Terremoti dell'INGV, i Direttori delle Sezioni INGV monitoranti e l'Ufficio Gestione Dati dell'INGV;
RITENUTO opportuno nominare il Direttore di Dipartimento Terremoti in rappresentanza dell'INGV nell'ambito del presente Accordo;
su proposta del Presidente,

DELIBERA

L'approvazione dello schema del Data Provisioning Agreement between the Istituto Nazionale di Geofisica e Vulcanologia (the Supplier) and the European-Mediterranean Seismological Centre (EMSC), allegato alla presente quale parte integrante e sostanziale (all.1).

Viene dato mandato al Presidente dell'INGV alla sottoscrizione definitiva dell'atto in questione.

Si nomina il Direttore di Dipartimento Terremoti in rappresentanza dell'INGV nell'ambito del presente Accordo.

Firmato il 11/04/2022

Depositato presso la Segreteria del Consiglio in data 11/04/2022

La segretaria verbalizzante
(Dott.ssa Maria Valeria INTINI)

IL PRESIDENTE
(Prof. Carlo DOGLIONI)



Centre Sismologique Euro-Méditerranéen European-Mediterranean Seismological Centre

Data Provisioning Agreement between the Istituto Nazionale di Geofisica e Vulcanologia (the Supplier) and the European-Mediterranean Seismological Centre (EMSC).

The Istituto Nazionale di Geofisica e Vulcanologia is providing parametric earthquake information and possibly other seismological information products (Data) to the EMSC. EMSC distributes these Data via its platforms and services according to its mission and mandate, and this will be continued for the foreseeable future.

It is EMSC policy that each Supplier must provide an official way to be identified and referenced such as a ROR¹ ID, DOI² or URL³. This identifier relates to the Supplier institution and primarily serves to acknowledge the contribution of the Supplier in EMSC products.

The Supplier will be identified by:

- ROR: <https://ror.org/00qps9a02>

The Supplier may also provide one or more identifiers for Data that it contributes, where such identifiers apply to specific data products in general (e.g. the Supplier's earthquake bulletin / catalog, the Suppliers moment-tensor catalog / collection, etc.). A single identifier may apply to multiple products. In case such identifiers do not exist currently, they may be submitted by the Supplier to EMSC at a later stage through an updated version of this Agreement.

These product identifiers mainly serve the purpose to support appropriate citation of and reference to the product (e.g. in publications or other work) and overall findability (i.e. should be resolvable and unique).

The Supplier declares the following identifier(s) for its Data:

DOI: <https://doi.org/10.13127/iside> (Italian Seismological Instrumental and Parametric Database (ISIDE). Istituto Nazionale di Geofisica e Vulcanologia (INGV))

Recognizing that affixing licenses to data products is a fundamental step towards FAIR data provisioning, and at the same time helps to assure proper citation and attribution,

[standard text]

the Supplier provides its Data under a Creative Commons 'Attribution' license⁴ version 4.0 or later (CC BY 4.0).

By signing the present data provisioning agreement, the Supplier guarantees that it has a right to collect and use the Data they provide to the EMSC.

This Agreement does not constitute any obligation or guarantee on the part of the Supplier regarding the provision of Data, its form, format, quality, timeliness or any other aspects.

As EMSC is the European infrastructure for seismological product information in EPOS, the Supplier also acknowledges that EPOS may distribute the Data subject to the same rules on data access. Open data may in the future be distributed through other data centers that federate with EMSC as well. In these cases, the EMSC will inform where possible the Supplier.

¹ Research Organization Registry <https://ror.org>

² Digital Object Identifier <https://www.doi.org>

³ URL - www address of an appropriate persistent webpage

⁴ <https://creativecommons.org/licenses/by/4.0/>

European-Mediterranean Seismological Centre

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European-Mediterranean Seismological Centre**

The contact point at the EMSC for any issues related to the Supplier and its Data is the EMSC Secretary General.

This agreement enters into force on the date of signature by both parties, with unlimited duration. It may be revoked by either party with at least 3 months' notice.

On behalf of the Supplier (Carlo Doglioni, President)

On behalf of the EMSC

Date: _____

Date: _____

Rémy Bossu
EMSC Secretary General

Made in 2 copies

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Some practical issues

Does this letter imply any change in the data exchanges in place?

In practice, this supplier letter does not modify anything in the data exchanges in place with EMSC. It formalises the existing practice established over the years.

What's about data that I use but are not mine?

A practical question may arise for parametric data derived from stations not operated by the signatory of the letter but supplied to EMSC as part of the supplier's contribution. There are 2 cases:

- The supplier generates its own parametric data from the waveforms of stations it does not operate. In that case the supplier is considered the owner of these parametric data. For the sake of transparency, it is advised to inform the network operator that this parametric data is supplied to EMSC.
- The supplier receives parametric data from another agency and includes them in its products supplied to EMSC. In that case, it is advised to sign a similar supplier letter between the sharing and receiving agency and inform EMSC that it has been done.

Can I propose a different licence?

Theoretically yes. However, in practice if the licence is not Creative Commons 'Attribution' (CC BY, currently version 4.0), it would be difficult and possibly impossible to keep collating your data at EMSC. The reason is simply that when merging datasets with different licences, the most restrictive one will apply to the resulting products. The CC-BY license has also been adopted as preferred / default license by EPOS. CC-BY is a license that should be valid and applicable worldwide (is at least in most countries and legislations). It allows the licensed data product to be re-used without restrictions – also commercial use is allowed – with the requirement that the original provider shall be appropriately referenced (attributed) whenever their product or derived work based on that product is published. One other option, in particular if local /national legislation allows or even requires, would be to declare the data products as 'public domain', and then to use for example a CC0 declaration⁵.

Data (product) identifiers and their use

In addition to the institutional identifier that is requested for each Supplier, and which will be used by EMSC to improve the attribution of all contributors, persistent identifiers of specific data also are important. They improve the FAIRness of scientific data, in particular by supporting reproducibility, and they allow more precise citation and reference of data used in scientific work.

While in an ideal scenario, each 'datum' that has scientific value on its own should come with its unique identifier (i.e. a particular earthquake location or moment-tensor, but even a specific arrival time or trace-amplitude reading), and methods to achieve this are emerging in the community (e.g. the specification of IDs in QuakeML format), fully agreed and established standards for such identifiers and how to use them do not yet exist, and many of the current standard data formats do not allow the inclusion of identifiers, in particular with such a granularity. It is expected that these standards and best practices will evolve over the next years. EMSC will actively follow these developments, and consecutively implement solutions to include such identifiers in the products and services as it becomes feasible.

In the meantime, agencies have started to assign identifiers (often DOIs) to specific 'general' data products that they produce and publish, e.g. an earthquake catalog or bulletin, or – on the seismic waveform side – the FDSN-approved seismic network DOI. These identifiers provide relevant

⁵ <https://creativecommons.org/share-your-work/public-domain/cc0/>



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information about the data product, support findability, and again allow reference and citation. Often such identifiers then do not refer to 'closed' (i.e. static, not changing any more) data products but to dynamically evolving ones. (If in specific scientific work, defined (closed) subsets / extracts of such data products are used, they can then be ascribed their own specific identifier.)

EMSC will strive to develop its products and services in such a way that these data product identifiers can be used and published alongside the data.

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