



PROGRAMME OF
THE EUROPEAN UNION



End-to-end implementation and operation of the European Ground Motion Service (EGMS)

CHANGE MANAGEMENT REPORT



Date: 05/05/2025

Doc. Version 1.1

Content ID: EGMS-D12.3-CMR-SC3-104

Kongens Nytorv 6
1050 Copenhagen K
Denmark
Tel.: +45 336 7100
Fax: +45 336 7199
eea.europa.eu



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Document Control Information:

Document Title	Change Management Report
Project Title	EGMS-SC3
Document Author	Emanuele Passera (TRE ALTAMIRA)
Document contribution	Emanuele Mele (e-GEOS)
Project Owner	Lorenzo Solari (EEA)
Project Manager	Agata Priolo (e-GEOS)
Document Code	EGMS-D12.3-CMR-SC3-104
Document Version	v1.0
Distribution	Public
Date	05/05/2025

Document Approver(s) and Reviewer(s):

Name	Role	Action	Date
Emanuele Passera	Document Owner	Editing	30/04/2025
Lorenzo Solari	Project Officer	Approval	02/05/2025

Document history:

Revision	Date	Created by	Short description of changes
1.0	30/04/2025	Emanuele Passera	First release
1.1	05/05/2025	Agata Priolo	cleaned version to be published



1 Introduction

1.1 Scope of the Document

The scope of this Report, according to the data fixing procedure outlined in RD2, is to document any specific issue discovered and fixed after the publication of an approved Product on the EGMS Explorer. The procedure won't deal with production or data issues identified before the publication of the data.

1.2 Reference Documents

Table 1 Reference Documents

ID	Reference or Related Document	Date	ID	Source or Link/Location
RD1.	EGMS ISSUES RECORD_i1r3	06/05/2024	EGMS ISSUES RECORD_i1r3	EGMS ORIGINAL Consortium
RD2.	Data Fixing Procedure	02/08/2022	EGMS-D12.1-CMR-SC2-068_i1r0	EGMS ORIGINAL Consortium
RD3.	Algorithm Theoretical Basis	06/02/2023	EGMS-D3-ALG-SC1-2.0-006	EGMS ORIGINAL Consortium
RD4.	Product User Manual	17/05/2022	EGMS-D4-PUM-SC1-2.0-007	EGMS ORIGINAL Consortium
RD5.	End User Interface Manual	27/10/2022	EGMS-D5-UIM-SC2-061	EGMS ORIGINAL Consortium
RD6.	Product Description and Format Specification	14/03/2022	EGMS-D6-PDD-SC1-2.0-009	EGMS ORIGINAL Consortium



2 Patch Notes

Patch Description	Non standard compression for L2b data
Geographic Location	Europe
Issue description	Bursts were not compressed correctly
Corrective action taken	Bursts were compressed again and made available in the Explorer
Set of updated/added products	All L2b burst produced from e-GEOS (the total number of bursts involved is 2384).

Patch Title	Duplicated PID
Geographic Location	Europe
Issue description	The L2a products had repeated PIDs
Corrective action taken	The cause of issue was identified and additional QC steps for the packaging of bursts in complex areas have been implemented
Set of updated/added products	<p>EGMS_L2*_029_0268_IW1_VV_2019_2023_2.zip EGMS_L2*_007_0844_IW3_VV_2019_2023_2.zip EGMS_L2*_007_0845_IW2_VV_2019_2023_2.zip EGMS_L2*_007_0845_IW3_VV_2019_2023_2.zip</p> <p>EGMS_L2*_029_0224_IW1_VV_2019_2023_2.zip EGMS_L2*_029_0253_IW2_VV_2019_2023_2.zip EGMS_L2*_029_0254_IW2_VV_2019_2023_2.zip EGMS_L2*_029_0255_IW2_VV_2019_2023_2.zip EGMS_L2*_073_0267_IW1_VV_2019_2023_2.zip EGMS_L2*_102_0237_IW2_VV_2019_2023_2.zip EGMS_L2*_102_0238_IW1_VV_2019_2023_2.zip EGMS_L2*_102_0239_IW1_VV_2019_2023_2.zip EGMS_L2*_124_0804_IW1_VV_2019_2023_2.zip EGMS_L2*_124_0805_IW1_VV_2019_2023_2.zip EGMS_L2*_124_0806_IW1_VV_2019_2023_2.zip EGMS_L2*_124_0806_IW2_VV_2019_2023_2.zip EGMS_L2*_124_0807_IW2_VV_2019_2023_2.zip EGMS_L2*_124_0808_IW2_VV_2019_2023_2.zip EGMS_L2*_124_0853_IW1_VV_2019_2023_2.zip EGMS_L2*_124_0854_IW1_VV_2019_2023_2.zip EGMS_L2*_124_0855_IW1_VV_2019_2023_2.zip EGMS_L2*_124_0856_IW1_VV_2019_2023_2.zip EGMS_L2*_124_0857_IW1_VV_2019_2023_2.zip EGMS_L2*_044_0267_IW3_VV_2019_2023_2.zip EGMS_L2*_044_0268_IW3_VV_2019_2023_2.zip EGMS_L3_E48N24_100km_*_2019_2023_2.zip EGMS_L3_E49N24_100km_*_2019_2023_2.zip</p>



	EGMS_L3_E54N23_100km_*_2019_2023_2.zip EGMS_L3_E56N17_100km_*_2019_2023_2.zip EGMS_L3_E49N25_100km_*_2019_2023_2.zip EGMS_L3_E55N23_100km_*_2019_2023_2.zip EGMS_L3_E48N25_100km_*_2019_2023_2.zip EGMS_L3_E47N24_100km_*_2019_2023_2.zip EGMS_L3_E54N20_100km_*_2019_2023_2.zip EGMS_L3_E55N18_100km_*_2019_2023_2.zip EGMS_L3_E47N16_100km_*_2019_2023_2.zip EGMS_L3_E53N20_100km_*_2019_2023_2.zip EGMS_L3_E53N18_100km_*_2019_2023_2.zip EGMS_L3_E54N18_100km_*_2019_2023_2.zip EGMS_L3_E46N25_100km_*_2019_2023_2.zip EGMS_L3_E46N24_100km_*_2019_2023_2.zip EGMS_L3_E47N25_100km_*_2019_2023_2.zip EGMS_L3_E47N15_100km_*_2019_2023_2.zip
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Patch Title	Gibraltar area
Geographic Location	Gibraltar area (Spain)
Issue description	L2a, L2b, and L3 products are currently unavailable for an approximately 8 square kilometres area around Gibraltar.
Corrective action taken	The data has been generated and integrated into the data download archive.
Set of updated/added products	EGMS_L2a_074_0213_IW1_VV_2019_2023_2 EGMS_L2a_081_0861_IW3_VV_2019_2023_2 EGMS_L2a_081_0862_IW3_VV_2019_2023_2 EGMS_L2a_154_0860_IW1_VV_2019_2023_2 EGMS_L2b_074_0213_IW1_VV_2019_2023_2 EGMS_L2b_081_0861_IW3_VV_2019_2023_2 EGMS_L2b_081_0862_IW3_VV_2019_2023_2 EGMS_L2b_154_0860_IW1_VV_2019_2023_2 EGMS_L3_E29N15_100km_E_2019_2023_2 EGMS_L3_E29N15_100km_U_2019_2023_2

Patch Title	Parque Natural del Cabo de Gata-Níjar area
Geographic Location	Parque Natural del Cabo de Gata-Níjar area (Spain)



Issue description	L2a descending, L2b descending, and L3 products were missing for an approximately 8 square kilometres area in the Parque Natural del Cabo de Gata-Níjar area, in Southern Spain.
Corrective action taken	The data has been generated and integrated into the data download archive.
Set of updated/added products	EGMS_L2a_008_0858_IW2_VV_2019_2023_1 EGMS_L2b_008_0858_IW2_VV_2019_2023_1 EGMS_L3_E32N16_100km_E_2019_2023_2 EGMS_L3_E32N16_100km_U_2019_2023_2

Patch Title	Ouessant Island
Geographic Location	Ouessant Island (France)
Issue description	L2a descending, L2b descending, and L3 products were missing on Ouessant Island, an island about 20 kilometers off the coast of Brittany, with an extension of approximately 20 square kilometers.
Corrective action taken	The data has been generated and integrated into the data download archive.
Set of updated/added products	EGMS_L2a_052_0786_IW2_VV_2019_2023_2 EGMS_L2a_052_0787_IW2_VV_2019_2023_2 EGMS_L2b_052_0786_IW2_VV_2019_2023_2 EGMS_L2b_052_0787_IW2_VV_2019_2023_2 EGMS_L3_E32N29_100km_E_2019_2023_2 EGMS_L3_E32N29_100km_U_2019_2023_2

Patch Title	Swiss border
Geographic Location	Swiss border between Swiss and Germany
Issue description	Wrong cut of the L2a and L2b ascending products on the northern border of Swiss, for an extension of roughly 1400 square kilometers.
Corrective action taken	The data has been generated and integrated into the visualization platform and the data download archive.
Set of updated/added products	EGMS_L2a_015_0281_IW1_VV_2019_2023_2 EGMS_L2a_015_0282_IW1_VV_2019_2023_2 EGMS_L2b_015_0281_IW1_VV_2019_2023_2 EGMS_L2b_015_0282_IW1_VV_2019_2023_2



Patch Title	Andalusia
Geographic Location	Andalusia (Spain)
Issue description	L2a descending, L2b descending, and L3 products were missing over an approximately 100 square kilometres area in Andalucia (Tarifa area), in the South of Spain.
Corrective action taken	The data has been generated and integrated into the data download archive.
Set of updated/added products	EGMS_L2a_154_0860_IW1_VV_2019_2023_2 EGMS_L2a_154_0861_IW1_VV_2019_2023_2 EGMS_L2b_154_0860_IW1_VV_2019_2023_2 EGMS_L2b_154_0861_IW1_VV_2019_2023_2 EGMS_L3_E29N15_100km_E_2019_2023_2 EGMS_L3_E29N15_100km_U_2019_2023_2

Patch Title	French Alps
Geographic Location	French Alps (France, Avignon area)
Issue description	L2a ascending, L2b ascending, and L3 products were missing in the overlaps of two bursts on a part of the French Alps (near Avignon), in the South of France.
Corrective action taken	The data has been generated and integrated into the data download archive.
Set of updated/added products	EGMS_L2a_088_0263_IW1_VV_2019_2023_2 EGMS_L2b_088_0263_IW1_VV_2019_2023_2 EGMS_L3_E40N23_100km_E_2019_2023_2 EGMS_L3_E40N23_100km_U_2019_2023_2

Patch Title	Santander area
Geographic Location	Santander area (Spain)
Issue description	L2a ascending, L2b ascending, and L3 products were missing over an approximately 100 square kilometres area near Santander.
Corrective action taken	The data has been generated and integrated into the data download archive.
Set of updated/added products	EGMS_L2a_103_0258_IW1_VV_2019_2023_1 EGMS_L2b_103_0258_IW1_VV_2019_2023_1 EGMS_L3_E32N23_100km_E_2019_2023_2



	EGMS_L3_E32N23_100km_U_2019_2023_2
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Patch Title	Britain
Geographic Location	Britain (France, Bacilly area)
Issue description	L2a ascending, L2b ascending, and L3 products were missing over a part of Britain, near Bacilly.
Corrective action taken	The data has been generated and integrated into the data download archive.
Set of updated/added products	EGMS_L2a_154_0784_IW1_VV_2019_2023_2 EGMS_L2b_154_0784_IW1_VV_2019_2023_2 EGMS_L3_E34N29_100km_E_2019_2023_2 EGMS_L3_E34N29_100km_U_2019_2023_2

Patch Title	Lisbon
Geographic Location	Lisbon (Portugal)
Issue description	L2a descending, L2b descending, and L3 products were missing over an approximately 10 square kilometres area near Lisbon.
Corrective action taken	The data has been generated and integrated into the data download archive.
Set of updated/added products	EGMS_L2a_052_0848_IW3_VV_2019_2023_2 EGMS_L2b_052_0848_IW3_VV_2019_2023_2 EGMS_L3_E26N19_100km_E_2019_2023_2 EGMS_L3_E26N19_100km_U_2019_2023_2

Patch Title	Toulon
Geographic Location	Toulon (France)
Issue description	L2a data containing 0 bytes due to FTP transfer failure.
Corrective action taken	The data has been generated and integrated into the data download archive.
Set of updated/added products	EGMS_L2a_139_0819_IW2_VV_2019_2023_1.zip EGMS_L2a_139_0819_IW1_VV_2019_2023_1.zip EGMS_L2a_139_0818_IW2_VV_2019_2023_1.zip EGMS_L2a_139_0818_IW1_VV_2019_2023_1.zip EGMS_L2a_139_0817_IW3_VV_2019_2023_1.zip