ICAO CORSIA CO$_2$ ESTIMATION AND REPORTING TOOL (CERT) FREQUENTLY ASKED QUESTIONS (FAQS)

Last update: December 2, 2024

Emissions report in CERT 2024 – Which Emissions Report (ER) template is used in CERT 2024?

The ER template in CERT 2024 is the same as in the 2023 version of the tool, i.e. it is based on the ER template contained in the 2nd Edition of Doc 9501 Environmental Technical Manual - Volume IV.

Equivalent fuel types in ER - How should users report fuel types other than the ones included in CERT 2024?

To ensure accurate and transparent reporting for summary and analysis, users should list equivalent fuel types as follows:

1. Select the most closely aligned fuel type from the existing options in CERT 2024 when filling in information.
2. State the fuel type used during operation and the corresponding equivalent fuel type in the *f) Fuel use monitoring method and / or the ICAO CORSIA CO$_2$ Emissions and Reporting Tool (CERT)* in the ER2 *Underlying Basic Information of the Emissions Report* spreadsheet. This information should be included in the Emissions Report.

Input data format (individual flight level or aggregated) – What is the appropriate format for the input?

The ICAO CORSIA CERT allows users to provide traffic data either on the basis of a unique flight (i.e., the number of flights will be 1 for each entry) or in an aggregated format (i.e., the number of flights will be the sum of all the flights for each combination of ICAO Aircraft Type Designator and Aerodrome Pairs (departing and arriving aerodromes)).

Note: In the 2018 version[1] of the ICAO CORSIA CERT, the two data formats CANNOT be combined. From the 2019 version of the ICAO CORSIA CERT, the tool allows for partially aggregated Aeroplane Type and Aerodromes Pairs input.

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[1] The 2018 version of the ICAO CORSIA CERT is no longer valid for CORSIA purposes but is archived on the CORSIA website.

Aerodromes – What should I do if an aerodrome code needed is not available in the ICAO CORSIA CERT?

The ICAO CORSIA CERT uses the ICAO Doc 7910 – *Location Indicators*, for aerodromes identification as stated in the references table of the ICAO CORSIA CERT Background page. If the aerodrome code needed is missing, after you click "Estimate CO_2 Emissions" (on the worksheet "*2. CO2 Estimation*" or "*ER_CO2_Est*") and agree to compare the input to the ICAO CORSIA CERT databases (by clicking "Yes" on the pop-up window), the ICAO CORSIA CERT will detect aerodromes which are not embedded therein and will automatically propose to add them as custom aerodromes. In addition to the aerodrome code entered as input, the user will have to provide the following information: aerodrome name, latitude and longitude of the aerodrome, and indicate the ICAO Member State where the aerodrome is located. You are also invited to communicate with the ICAO CORSIA CERT Team via the email address CERT@icao.int to notify ICAO of missing ICAO aerodrome codes.

Incorrect Aerodrome Information – What should I do if information on an aerodrome is considered not correct in the ICAO CORSIA CERT?

It may happen that the name, coordinates or State name in which the airport is located are considered incorrect. You can amend the information relative to an airport by pressing the "*Custom AP*" button (located on the worksheet "*2. CO2 Estimation*" or "*ER_CO2_Est*"). In the "*Custom aerodrome information*" worksheet, you need to enter the Aerodrome Code, Aerodrome Name, Latitude, Longitude, and the ICAO Member State name.

Please take note that the "Already in CERT" message will appear if the aerodrome code exists already in the ICAO CORSIA CERT. This is a warning message: the ICAO CORSIA CERT giving always priority to Custom Aerodromes, the user is warned should (s)he have introduced mistakenly the code of an existing aerodrome.

If you consider that information related to an airport is incorrect, you are invited to bring this to the attention of the ICAO CORSIA CERT Team by sending an email to the following address CERT@icao.int.

> ICAO Aerodrome Codes starting with "SV" (e.g., "SVMI") – Need to reattribute them to the ICAO Member State "Venezuela (Bolivarian Republic of)"
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> Due to a technical issue in the 2019 version of the ICAO CORSIA CERT, the airports with ICAO Aerodrome Codes that start with "SV" (e.g., "SVMI") are wrongly attributed to the ICAO Member State "Bolivia (Plurinational State of)". If, as user of the ICAO CORSIA CERT, you enter in the tool international flights to or from aerodromes starting with "SV", please use the process described in "Incorrect Aerodrome Information" to assign these airports to the correct ICAO Member State: "Venezuela (Bolivarian Republic of)".

Note. - All aerodromes starting with "SL" are correctly attributed to "Bolivia (Plurinational State of)".

Aeroplane Operators – What should I do if my ICAO Designator is not available from the dropdown menu?

If the ICAO Designator is not available from the drop-down menu, the user should leave the field blank in the ICAO CORSIA CERT identification page. The only purpose of the ICAO CORSIA CERT "Aeroplane Operator Information" page is to tag the name of the operator on the summary assessment, which is requested as supporting information. For the 2018-2019 period, the information that the aeroplane operator enters in its CORSIA Emissions Monitoring Plan (EMP) matters most. As long as the aeroplane operator enters its name and its three-letter designator in the EMP, that should be sufficient to identify the operator. You are also invited to communicate with the ICAO CORSIA CERT Team via the email address CERT@icao.int to notify ICAO of missing ICAO Designators.

Aeroplane – What should I do if an aeroplane code needed is not available in the ICAO CORSIA CERT?

If the aeroplane code needed is missing, after you click "Estimate CO_2 Emissions" (on the worksheet "*2. CO2 Estimation*" or "*ER_CO2_Est*") and agree to compare the input to the ICAO CORSIA CERT databases (by clicking "Yes" on the pop-up window), the tool will automatically propose that you add a custom aeroplane. In addition to the aeroplane code entered as input, the user will have to provide the following information: aeroplane category (selected from the drop-down menu) and the average Maximum Take-off Mass (MTOM) in kilograms (kg). The average MTOM is calculated using the arithmetical average of individual MTOM of aeroplane in the fleet of a given aeroplane type code, divided by the number of aeroplane in the fleet of the given aeroplane type code. Once the aeroplane category and average MTOM have been entered, the custom aeroplane functionality displays information on the fuel burn rate (kg/km and kg/min from the 2019 Version of the ICAO CORSIA CERT) and intercept value (fuel at great circle distance of 0 km and fuel at block time of 0 minute from the 2019 Version of the ICAO CORSIA CERT), depending on the underlying regression model associated with the manually selected aeroplane category and average MTOM. The indicated fuel burn rate and interception value are used in the ICAO CORSIA CERT to calculate the estimated fuel burn and emissions for all flights with this Custom Aeroplane Code.

Custom Aerodrome – **Error codes**

E1	Symbols for Degree (°), Minute (') or Second (") are missing for the "*Latitude*" field. Please check that symbols in brackets (or any customized symbols) are not missing. Degree/Minute/Second format is by default as follow: - Latitude: 10° 20' 30.40" N or 10° 20' 30.40" S - Longitude: 100° 20' 30.40" E or 100° 20' 30.40" W *Note: decimals are optional*
E2	Symbols for Degree (°), Minute (') or Second (") are missing for the "*Longitude*" field. Please check that symbols in brackets (or any customized symbols) are not missing. Degree/Minute/Second format is by default as follow: - Latitude: 10° 20' 30.40" N or 10° 20' 30.40" S - Longitude: 100° 20' 30.40" E or 100° 20' 30.40" W *Note: decimals are optional*
E3	Value for Degree is incorrect (latitude). This error code occurs if the value is not comprised between 0 and 90 degree(s) or if a non-numerical value is detected.
E4	Value for Minute is incorrect (latitude). This error code occurs if the value is not comprised between 0 and 60 minute(s) or if a non-numerical value is detected.
E5	Value for Second is incorrect (latitude). This error code occurs if the value is not comprised between 0 and 60 second(s) or if a non-numerical value is detected.
E6	Value for Degree is incorrect (longitude). Value is comprised between 0 and 90 degree(s).
E7	Value for Minute is incorrect (longitude). Value is comprised between 0 and 60 minute(s).
E8	Value for Second is incorrect (longitude). Value is comprised between 0 and 60 second(s).
E9	Symbol for North (N) or South (S) is missing for the "*Latitude*" field. Please check that symbol in brackets (or any customized symbols) is not missing. Degree/Minute/Second format is by default as follow: - Latitude: 10° 20' 30.40" N or 10° 20' 30.40" S - Longitude: 100° 20' 30.40" E or 100° 20' 30.40" W
E10	Symbol for East (E) or West (W) is missing for the "*Longitude*" field. Please check that symbol in brackets (or any customized symbols) is not missing. Degree/Minute/Second format is by default as follow: - Latitude: 10° 20' 30.40" N or 10° 20' 30.40" S - Longitude: 100° 20' 30.40" E or 100° 20' 30.40" W

E11	Value is incorrect after the decimal separator for the "*Latitude*" field. Please check that there is no character other than numerical values between the decimal separator and the symbol for the seconds.
E12	Value is incorrect after the decimal separator for the "*Longitude*" field. Please check that there is no character other than numerical values between the decimal separator and the symbol for the seconds.
E13	Value is not numeric for the "*Latitude*" field. This error code occurs if a non-numerical value is detected. Decimal format is by default as follow: - Latitude: 10.20 or -10.20 - Longitude: 150.50 or -150.50 *Note: decimals are optional*
E14	Value is not numeric for the "*Longitude*" field. This error code occurs if a non-numerical value is detected. Decimal format is by default as follow: - Latitude: 10.20 or -10.20 - Longitude: 150.50 or -150.50 *Note: decimals are optional*
E15	Value is incorrect for the "*Latitude*" field. Please check that the value is comprised between -90 and 90.
E16	Value is incorrect for the "*Longitude*" field. Please check that the value is comprised between -180 and 180.
E17	Symbols order. This error code occurs if the symbols for Degree, Minute and Second are entered but not in the correct order. In this example, symbols for degree and minute (in red) have been switched: 10**'** 20**°** 30.40" N instead of 10**°** 20**'** 30.40" N.

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