**Date of progress update:** 8/01/2019 **Period covered:** December 2018

*This template is for every modelling team to very briefly report on the progress made during the past month and ongoing activities, and most importantly to point out concerns and difficulties (see Table ‘Issues, concerns, suggestions’ at the end of the template). Please keep the report short but do mention any bottleneck likely to lead to work plan slippages or production quality and reliability issues.*

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| **Brief summary in no more than 2-3 lines (for all modelling teams)** |
| First version of domain definition under test, emission pre-process of CAMS-REG data, adapting MONARCH pre-processor to IFS-fcst data and downloading C-IFS variables required by MONARCH initialization. Feedback sent to INERIS on Technical requirement document for candidate models. |

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| **WP5020 Continuous Model Development (for all modelling teams)** | | | |
| **COMPLETED DURING THE MONTH** | | | |
| Development item (dev. common to other models + individual dev.) | Target upgrade[[1]](#footnote-1) | Date completed (DD/MM/YYYY) | Short note |
|  |  |  |  |
| **IN PROGRESS** | | | |
| Development item (dev. common to other models + individual dev.) | Target upgrade2 | Estimated completion date (DD/MM/YYYY) | Short note[[2]](#footnote-2) |
| Forecasts set-up over CAMS domain (MONARCH) | N/A | 31/03/2019 | Tests running the model with first version of CAMS domain and default MONARCH configuration with GFS, C-IFS, TNO-III, GFASv1.2daily. |
| Introduction of required input data: emissions (MONARCH) | N/A | 31/03/2019  Depends on GFAS hourly decision. | Ongoing work preparing CAMS-REG-v2.1 and CAMS-GLOB datasets to complete MONARCH domain (anthropogenic, soil and ocean). Downloading sample GFAS hourly data. CAMS-REG-v2.1 will be replaced by v2.2. |
| Introduction of required input data: meteorology from IFS-fcst (MONARCH) | N/A | 28/02/2019 | 20160826 IFS-fcst data downloaded from MARS server for forecast experiment. Initial work adapting MONARCH pre-processor to IFS-fcst data. |
| Introduction of required input data: chemical boundary conditions (MONARCH) | N/A | 31/03/2019 | 20160826 C-IFS data downloaded from CDS. Initial work on mapping C-IFS aerosols with MONARCH aerosols. |
| **NOT STARTED** | | | |
| Development item (dev. common to other models + individual dev.) | Target upgrade1 | Estimated  start date (DD/MM/YYYY) | Short note[[3]](#footnote-3) |
| M2.2.1: Setup model over CAMS domain | N/A |  | Deadline 31/03/2019 |
| D2.2.1-MONARCH-P1: Section on MONARCH setup for CAMS domain. | N/A |  | Deadline 30/06/2019 |
| M2.2.2: Forecast experiment completed, and output delivered (MONARCH) | N/A |  | Deadline 30/09/2019 |
| D2.2.1-MONARCH-P2: Section on Forecast experiment | N/A |  | Deadline 31/12/2019 |
| M2.2.3: Hindcast experiment completed and output delivered (MONARCH) | N/A |  | Deadline 15/12/2019 |
| D2.2.1-MONARCH-P3: Section on Hindcast experiment | N/A |  | Deadline 30/06/2020 |

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| **Issues, concerns, suggestions (for all modelling teams)** | | |
| Type (issue, concern, suggestion) | Topic | Description |
| **DEVELOPMENT WORK** | | |
| Issue | Technical requirements for candidate models | Feedback iteration with INERIS during December 2018. Requirements clear from our side except GFAS hourly data. |
| **DATA UPLOAD** | | |
| Concern | GFAS hourly emissions | Data is not available for 2016 year. Not clear how to proceed for 20160826 experiment. Waiting for final decision about which dataset to be used (hourly or daily) prior to start developments in MONARCH. |
| **DATA ASSIMILATION** | | |
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| **OPERATIONAL PRODUCTION** | | |
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| **VERIFICATION** | | |
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| **UPGRADE PREPARATION** | | |
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| **OTHER (MANAGEMENT, etc.)** | | |
| Issue | Subcontract Agreement | BSC’s feedback on the first draft of the Subcontract Agreement was shared with Météo-France on 30th of October 2018. |

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| **Communication (for all modelling teams)** | | |
| **COMMUNICATION ACTIONS[[4]](#footnote-4) (for all modelling teams)** | | |
| Type (article, presentation, etc.) | Date  (DD/MM/YYYY) | Description |
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1. Not for MONARQUE nor MINNI. [↑](#footnote-ref-1)
2. On track, possible delays, delayed (details to be provided in Table ‘Issues, concerns, suggestions’). [↑](#footnote-ref-2)
3. No slippage anticipated, possible delays, delayed (details to be provided in Table ‘Issues, concerns, suggestions’). [↑](#footnote-ref-3)
4. Please make sure that you acknowledge, in your communication actions/materials, that CAMS is being “Funded by the European Union" and “Implemented by ECMWF” and that the Copernicus and ECMWF logos are displayed in an appropriate way (article 2.4 of Framework agreement).

   Communication or publication of deliverables: please explicitly state that the information/material contained is being communicated/published in the name of the Commission; that the information/material contained has been produced “with funding by the European Union”; and that the Commission is not responsible for any use that may be made of the information/material contained (article 3.1.6.2 of Framework agreement). [↑](#footnote-ref-4)