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Reference Number	Title	Description	Planned Competitive Process Launch	Planned Contract Start	Envisaged Contract Duration (months)	Estimated Contract Value (€)
C3S2_120a_bis	ECVs Technical Management	Technical and contractual management support of operational ECV contracts, which will take special relevance with the growing number of ECV products in the catalogue of the CDS, and therefore with the number of deliverables to be reviewed.	Q1-2024	Q2-2024	44	Between € 200k and € 1M
C3S2_313b	ECVs Atmospheric physics	Implementation and maintenance of European capabilities for the sustained generation of Climate Data Records of atmospheric physics Essential Climate Variables based primarily on satellite observations	Q1-2024	Q3-2024	41	Above € 1M
C3S2_313c	ECVs Land hydrology	Implementation and maintenance of European capabilities for the sustained generation of Climate Data Records of Essential Climate Variables of the hydrological cycle based primarily on satellite observations	Q1-2024	Q3-2024	41	Above € 1M
C3S2_313d	ECVs Cryosphere	Implementation and maintenance of European capabilities for the sustained generation of Climate Data Records of Essential Climate Variables of the cryosphere based primarily on satellite observations	Q1-2024	Q3-2024	41	Above € 1M
C3S2_313e	ECVs Land biosphere	Implementation and maintenance of European capabilities for the sustained generation of Climate Data Records of the land biosphere Essential Climate Variables based primarily on satellite observations	Q2-2024	Q4-2024	39	Above € 1M
C3S2_313f	ECVs Ocean	Implementation and maintenance of European capabilities for the sustained generation of Climate Data Records of ocean Essential Climate Variables based primarily on satellite observations	Q3-2024	Q1-2025	35	Above € 1M
C3S2_314_bis	Support for Climate Reanalysis Including Satellite Data Rescue	This procurement covers the work required to support ECMWF C3S in preparing for the back extension of ERA6, currently scheduled to start in 2026. The work involves the preparation of satellite datasets (both early satellite data and reprocessed operational data) for assimilation in ERA6. These datasets are currently being delivered (and have been delivered) as part of COP1 and the initial phase of COP2 - but iterative improvements and on-call support during the pre-production and production phases is necessary to minimise risks to ERA6 production (delays and sub-optimal performance).	Q2-2024	Q4-2024	42	Above € 1M
C3S2_361b	European Regional reanalysis support activity	Support activity to the users for further dynamical downscaling of reanalysis information for Europe.	Q2-2024	Q4-2024	48	Between € 200k and € 1M
C3S2_375	Decadal prediction service	Decadal prediction service	Q1-2024	Q3-2024	30	Between € 200k and € 1M
C3S2_382	Provision of additional climate projection datasets for the Copernicus Climate Data Store	Provision of global and regional projections New content (data) and functionality (WPS) for climate projections in the CDS	Q1-2024	Q2-2024	30	Between € 200k and € 1M

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C3S2_383	Enhanced data service for climate projections	Building on the CADS data service covering CMIP6 climate projections, a more user-friendly capability will be developed. The focus will be on data volume reduction and increased efficiency of access to a critical mass of data necessary for climate service development. The specific priority in this round of procurement will be informed by the requirements of the C3S Climate Atlas and feedback from current user experiences.	Q2-2024	Q4-2024	24	Between € 200k and € 1M
C3S2_384	Downscaling of CMIP climate projections	To boost the sample of high-resolution simulations covering the 21st century, over all regions of the world, statistical downscaling techniques will be developed and applied to CMIP global-model projections. The use of machine learning techniques will be explored, using CORDEX RCM simulations as target. Depending on availability of relevant CORDEX output, the methods will be applied to CMIP6 downscaling.	Q4-2024	Q2-2025	36	Above € 1M
C3S2_411_Lot1	C3S operational water service - Lot 1 - Multi-model Operational Hydrological Seasonal Prediction Service - Global & European	The tender C3S operational water service is divided in 3 Lots (Seasonal forecast timescale, climate projections, user interface). The operational C3S water service will be a core provider of European and global scale climate and hydrological information to assist decision-making to a diverse range of users in the water sector at seasonal and climate timescales. Data will be delivered through the CDS and offer a user-friendly web interface complete with links to data, applications, and demonstrations. This service encompasses historical data, a seasonal forecasting component, and a collection of climate projection outlooks. Its design is flexible, ensuring the provision of consistent climate inputs for hydrological modeling (supporting hydrological science), alongside a suite of pre-computed hydrological variables and indicators (supporting e.g. policy and decision-makers).	Q1-2024	Q2-2024	42	Above € 1M
C3S2_411_Lot2	C3S operational water service - Lot 2 - A water service for multi-decadal timescales	Provided in the cell above	Q1-2024	Q2-2024	42	Between € 200k and € 1M
C3S2_411_Lot3	C3S operational water service - Lot 3 - Operational interface to the users	Provided in the cell above	Q1-2024	Q2-2024	39	Between € 200k and € 1M
C3S2_414	Operational Agriculture SIS	Operational Agriculture SIS	Q1-2024	Q3-2024	36	Above € 1M
C3S2_420	On-demand applications	This tender will procure the development of targeted C3S applications meeting the requirement of specific users communities	Q1-2024	Q2-2024	24	Between € 200k and € 1M

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C3S2_431	Interfaces with other data portals: Mission on Adaptation	This activity will build on the activities and data services that underpin the European Climate Data Explorer to provide climate information for the present and future for key climate indications (and sectors). This data service will seek to provide users with context for adaption planning – i.e., provide a common narrative to observed climate trends of the present with those expected in the future.	Q1-2024	Q2-2024	34	Between € 200k and € 1M
C3S2_451	Operational attribution service: indicators and support	Launch a Copernicus Climate attribution office which will provide historical information on extremes in an application. Complimented by leveraging C3S datasets (reanalysis, seasonal predictions and forecasts) to provide a rapid attribution service for some classes of extreme events. Products from this ITT will be embedded within the climate intelligence activities and will lead to new data sets available on the CDS and new products on the C3S website which will form part of our communications outputs.	Q1-2024	Q3-2024	48	Above € 1M
C3S2_461	C3S National Collaboration Programme (1st batch)	The C3S National Collaboration Programme aims to engage with national authorities and climate specialists to stimulate uptake of C3S services and products. It is expected that 4-5 contracts will be signed as result of this ITT.	Q1-2024	Q3-2024	24	Between € 200k and € 1M
C3S2_510	CDS Evaluation and Quality Control Function - URDB, monitoring	The EQC function will be procured through three contracts, this one will look after the URDB	Q1-2024	Q3-2024	48	Above € 1M
C3S2_521	EQC for tools and applications	This tender is designed to procure the quality assurance reports of the tools and applications that will run on the new CDS	Q1-2024	Q3-2024	36	Above € 1M
C3S2_523	EQC front end support service (CADS+TH)	This ITT is designed to support the updated EQC vision with an accessible dashboard designed to inform users of the best datasets for their requirements, the dashboard will be embedded within the Climate Data Store.	Q2-2024	Q4-2024	24	Above € 1M
C3S2_610	Analysis and enhancement of C3S datasets in support of climate intelligence and attribution activities.	Analysis of the C3S datasets (seasonal hindcasts and climate runs) available to build an unobserved event set to study the unlikely but unobserved event and better characterize the uncertainty in reanalysis mean state	Q2-2024	Q4-2024	24	Between € 200k and € 1M
C3S2_611	Enhancement of climate dashboard to include more carbon cycle and energy balance indicators	ITT to update the climate indicator dashboard to include energy balance indicators, carbon cycle and align more closely to the IPCC AR6 information	Q2-2024	Q3-2024	24	Between € 200k and € 1M

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C3S2_620	Enhancement of the ERA6 stratospheric description for back extension (MLS SSMI/S)	This ITT aim at two objectives: 1)the development of data assimilation schemes for the improved representation of water vapour in the upper troposphere and stratosphere in reanalysis. To include the testing of schemes to assimilate MLS water vapour observations and, 2)the extension of temperature sounding to upper stratosphere and mesosphere (up to 85km) using SSMI/S data during the period 2003-20023 & apply WC MEF to improve representation of this region in early periods in reanalysis.	Q1-2024	Q3-2024	36	Above € 1M
C3S2_630	Diagnostics about energy balance of the planet derived from observations and reanalyses	Develop, using a combination of satellite based measurements and reanalyses, diagnostics of global coupled atmosphere-ocean-sea-ice energy budgets. These are expected to be relevant for climate monitoring and could form the basis for new C3S monitoring products.	Q2-2024	Q4-2024	24	Between € 200k and € 1M
CAMS2_35_bis	Developments for reactive gases and aerosol in the global system	This ITT is for delivering further improvements to the aerosol and chemistry schemes and the related parameterisations of source and sink processes in the Global Production System, to develop new products, and to support the operational production and upgrades of the global forecasting system.	Q3-2024	Q1-2025	34	Above € 1M
CAMS2_35a	Developments for reactive gases and aerosol in the global system: modal aerosol scheme development	Developments for reactive gases and aerosol in the global system: modal aerosol scheme development	Q1-2024	Q3-2024	24	Under € 200k
CAMS2_40_bis	Regional Air Quality Products	This ITT is for the operational delivery of the European-scale air quality component of CAMS based on a 10+ model ensemble. It consists of a set of services, including daily analyses and forecasts, interim reanalyses, and validated reanalyses.	Q4-2024	Q2-2025	37	Above € 1M
CAMS2_51b	Emission inventories of greenhouse gases: NRT bottom-up emission estimation system	This ITT would be to develop a NRT bottom-up emission estimation system, extending the work done with CarbonMonitor to air pollutants and to improve the system itself in order to make it more fully comprehensive (covering also uncertainties). It will eventually provide the a priori emissions required for all observations-based emissions, while also being a valuable information on its own. It should bring the main European players together.	Q2-2024	Q4-2024	36	Between € 200k and € 1M

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CAMS2_51c	Emission inventories of greenhouse gases: support for emissions pre-processing	This ITT would be to ask for the provision of facilities and tools for quick offline scientific evaluation of emissions configurations. The tool would be used for displaying maps and statistics of the resultant total emissions in a particular configuration, and comparing them to a reference, without having to go through the process of running through an actual model run. In addition, the maintenance of the actual emission specification files required for particular configurations, which combine both specifics of the inventories (e.g., what sectoral granularity is provided) and specifics of the composition schemes themselves (e.g., how to convert the VOC speciation for CB05 vs MOCAGE vs MOZART), will need to be provided.	Q1-2024	Q3-2024	24	Under € 200k
CAMS2_52a_bis	Development and provision of global observation-based emissions and fluxes	Development and provision of global observation-based emissions and fluxes	Q1-2024	Q3-2024	36	Above € 1M
CAMS2_52b_bis	Provision of near-real-time satellite retrievals of CO2 and CH4 - Service Continuation	This ITT is for providing support for the production of the Global Production System of CAMS operated at ECMWF, which delivers 3D distributions of greenhouse gases (CO2 and CH4) in the troposphere and stratosphere through the provision of timely satellite observations of CO2 and CH4 from GOSAT, GOSAT-2, and IASI. Options to potentially prepare/provide data from the future GOSAT-GW and IASI-NG will be included.	Q1-2024	Q3-2024	40	Between € 200k and € 1M
CAMS2_53b	Development and provision of hot-spot observation-based emissions and fluxes (CO2 component)	Development and provision of hot-spot observation-based emissions and fluxes (CO2 component)	Q1-2024	Q3-2024	36	Between € 200k and € 1M
CAMS2_54a	Co-design of specific user services: showcase user services in support of the 2023 stocktake	This will build on CAMS/CoCO2/CHE/VERIFY to provide innovative and engaging ways to showcase data available for supporting EU27 and Copernicus cooperating countries for the 2023 stocktake exercise. It will engage with key users in selected Member States.	Q1-2024	Q3-2024	18	Between € 200k and € 1M
CAMS2_64_bis	Development of the Global Fire Assimilation System (GFAS)	This ITT is for providing support for and further development of GFAS, which is operated at ECMWF. GFAS delivers near-real-time emissions of gases and aerosols from biomass burning through data assimilation of multi-satellite FRP retrievals supporting atmospheric composition forecasts.	Q1-2024	Q2-2024	43	Between € 200k and € 1M
CAMS2_71_bis	Products in support of users in the domain of air quality policies	The ITT is about activities to deliver a range of products of the CAMS portfolio especially relevant for policy users. It includes annual assessment reports based on the CAMS European reanalyses, as well as a range of web-based policy tools.	Q2-2024	Q4-2024	36	Above € 1M

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CAMS2_73_bis	Solar Radiation Services	This ITT is for providing and continuously evaluating the CAMS products related to solar radiation. In the new contract, which will take over from the current one, there will be some additions to the operational portfolio (especially extension of the cloudy sky products). These are the outcomes of developments that have been finalised during the current contract for meeting certain outstanding user requirements.	Q2-2024	Q4-2024	36	Above € 1M
CAMS2_83_bis	Regional evaluation & quality control (EQC)	This ITT is for EQC activities of the CAMS regional production systems. It includes the provision of quarterly EQC reports as well as the provision of web-based routine quality monitoring graphics.	Q4-2024	Q2-2025	32	Between € 200k and € 1M
CAMS2_84a	EQC of emission and surface fluxes products: prototype EQC activities for global products	Develop EQC and benchmarking services for global CO2 fluxes and emissions, including uncertainty estimation.	Q2-2024	Q4-2024	36	Above € 1M
CJS2_120_bis	Provision of website maintenance, support and update services	This ITT anticipates the end of existing contract for technical support and maintenance of the C3S and CAMS websites and ad hoc development and design activities to launch new CAMS' and/or C3S' new products and/or services.	Q4-2024	Q2-2025	32	Between € 200k and € 1M
CJS2_122	User experience and user journey study for websites	Evaluation of the current Copernicus subdomains climate.copernicus.eu and atmosphere.copernicus.eu with respect to how a range of users can find their way through the website structure and swiftly locate the content they need. The study will allow for evidence-based development in the future.	Q1-2024	Q2-2024	12	Under € 200k
CJS2_123	Corporate communication, design and content production services	This ITT anticipates the end of existing contract for engaging scientifically sound but easy-to-understand (design, writing and multimedia) content for CAMS and C3S across different channels and formats.	Q2-2024	Q4-2024	39	Above € 1M
CJS2_140	Events and experiential marketing services	This ITT will be in preparation for end of existing contract under which events and experiential marketing are carried out. It includes hosted and external events including assume event concept creation, marketing, all logistics, merchandise, storage and shipping responsibilities.	Q2-2024	Q4-2024	28	Above € 1M
CJS2_152a_bis	Enhancing User Intelligence for CAMS - User uptake and user requirements activities	Organisation of user uptake events and user requirements collection and repository. Retendering of contract CJS2_152a	Q4-2024	Q2-2025	32	Between € 200k and € 1M
CJS2_155b	Demo cases on renewable energy in the Mediterranean	Target of the demo cases is to illustrate the use of CAMS and C3S data in the region and to inspire institutional user communities to develop applications themselves via local downstream sector. So, we don't aim to develop operational applications as such and entities can develop these demo cases on their own infrastructure.	Q2-2024	Q4-2024	24	Between € 200k and € 1M
CJS2_156c	Training and knowledge transfer - Mini MOOCs	Development and live run of several mini MOOCs (Massive Open Online Courses) on topics relevant to C3S. Education material developed as part of the MOOCs to also be used as stand-alone resources.	Q1-2024	Q3-2024	24	Under € 200k

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CJS2_161	Support service to implement CHH and CEH	Small scale user outreach and engagement activities in support of the implementation of the Copernicus Energy and Health Hubs.	Q3-2024	Q1-2025	18	Between € 200k and € 1M
CJS2_231	ECVs visualisation (Proof of concept)	Proof-of-concept project to support the visualisation of Climate Data Records of Essential Climate Variables in a modern, attractive and simple-fashion way.	Q2-2024	Q3-2024	6	Under € 200k

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Copernicus Services: List of Competitive Processes - Estimated Timeline of Competition Phases

