



VAMDC

Virtual Atomic and Molecular Data Centre

**D3.2**

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**Dissemination/Training Report 1**

Version 0.1

Grant agreement no: 239108

Combination of Collaborative Projects & Coordination and Support Actions



### **Project Information**

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### **Consortium:**

<b>Beneficiary Number *</b>	<b>Beneficiary name</b>	<b>Beneficiary short name</b>	<b>Country</b>	<b>Date enter project**</b>	<b>Date exit project**</b>
1(coordinator)	Centre National de la Recherche Scientifique	CNRS	France	Month 1	Month 42
2	The Chancellor, Masters and Scholars of the University of Cambridge	CMSUC	UK	Month 1	Month 42
3	University College London	UCL	UK	Month 1	Month 42
4	Open University	OU	UK	Month 1	Month 42
5	Universitaet Wien	UNIVIE	Austria	Month 1	Month 42
6	Uppsala Universitet	UU	Sweden	Month 1	Month 42
7	Universitaet zu Koeln	KOLN	Germany	Month 1	Month 42
8	Istituto Nazionale di Astrofisica	INAF	Italy	Month 1	Month 42
9	Queen's University Belfast	QUB	UK	Month 1	Month 42
10	Astronomska opservatorija	AOB	Serbia	Month 1	Month 42
11	Institute for Spectroscopy RAS	ISLAN	Russian Federation	Month 1	Month 42
12	Russian Federal Nuclear Centre All-Russian Institute of Technical Physics	RFNC-VNIITF	Russian Federation	Month 1	Month 42
13	Institute of Atmospheric Optics	IAO	Russian Federation	Month 1	Month 42
14	Corporacion Parque Tecnologico de Merida	IVIC	Venezuela	Month 1	Month 42
15	Institute of Astronomy of the Russian Academy of Sciences	INASAN	Russian Federation	Month 1	Month 42

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Abstract	The objective of D3.2 is to describe VAMDC Dissemination and Training Plan for Period 1. This report corresponds to Activities in WP3: NA2 “Dissemination and Training”. This report is included in the VAMDC Periodic Report for Period 1.
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## Versioning and Contribution history

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V0.1	19/07/2010	Draft of Section 5	N. Mason
V0.1	20/07/2010	Draft of D3.2	M.L. Dubernet

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## WP3 ACTIVITIES DESCRIPTION

<b>Work package number</b>	3			<b>Start date or starting event:</b>	3						
<b>Work package title</b>	NA2: Dissemination and Training										
<b>Activity Type</b>	COORD										
<b>Participant id</b>	1	2	3	4	5	6	7	10	13	14	15
<b>Person-months per beneficiary: (Total = EU + Node Contributions)</b>	6	9	3	18	14	8	1	12	6	11	3

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### 1. WP3 Objectives

Our objective is to attract new participants to the e-infrastructure, i.e. producers and users of data.

The key objective of the training and dissemination activity is to ensure that principle stakeholders are engaged in the development and implementation of the VAMDC E-infrastructure. This Work package will therefore provide for:

- a) Dissemination of VAMDC services at national, EU and non-EU levels
- b) Training of producers & users at master, PhD and professional levels (both academic and non-academic users)

Specifically this work package provides for:

- 1) An annual meeting, which showcases the work of the e-infrastructure, supports networking and scientific communication, and becomes the conference of choice for users and providers of atomic and molecular data
- 2) Organize topic based scientific workshops, twice a year, to bring together proposers, users and providers of A&M data to discuss data needs and how VAMDC can meet those needs.
- 3) Arrange teaching tutorials (on-line and face to face) on the VAMDC e-infrastructure

### 2. WP3 Milestones and Deliverables

#### Milestones

M3.1	CTT meetings	WP3	OU/UNIVIE	Months 10, 22, 34, 42	Minutes of Meetings on Internal Website
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M3.2	Review of Conferences/Schools	WP3	OU/UNIVIE	Months 10, 22, 34	Agenda and Training material of workshops on Public Website
M3.3	Review of Regional Tutorials	WP3	OU/UNIVIE	Months 10, 22, 34	Agenda and Training material of workshops on Public Website

## Deliverables

### ***D3.1 Dissemination and Training (D&T) Plan (PM 3)***

### ***D3.2 Annual D&T Report to be included in report to EU – Year 1 (PM 10)***

Annual reports will provide publicly available summaries of the activity of the WP for each project year. Report will include a list of meetings/conferences attended to disseminate VAMDC to other communities. Annual reports will be for examined by the VAMDC Project Board.

### ***D3.3 VAMDC Level 1 Service Prototype (PM10)***

### ***D3.4 VAMDC Annual Project Meeting 1 at OU (4) (PM12)***

An annual meeting will be organized at the end of each year of the project

### ***D3.5 Annual D&T Report to be included in report to EU – Year 2 (PM 22)***

### ***D3.6 VAMDC Level 2 Service Prototype (PM22)***

### ***D3.7 VAMDC Annual Project Meeting 2 at CMSUC (2) (PM24)***

### ***D3.8 Annual D&T Report to be included in report to EU – Year 3 (PM 34)***

### ***D3.9 VAMDC Level 3 Service prototype (PM34)***

### ***D3.10 VAMDC Annual Project Meeting 3 at UNIVIE (5) (PM36)***

### ***D3.11 VAMDC Service Release (PM40)***

### ***D3.12 VAMDC Final Annual Project Meeting at CNRS (1) (PM42)***

### ***D3.13 Final Report of Dissemination and Training to be included in final report to the EU (PM42)***

The final report will include a reflexive analysis of the effectiveness of the WP, and proposals for future activities beyond the lifetime of the project. This deliverable will be organized under Task 1.

***Annual D&T Plan revisions included in Revised Annual VAMDC Project Plans – Year 1,2,3***

## 3. WP3 Tasks Description

WP3 Leader	N. Mason (OU)	
Task Number	Leader	Other Partners
1 Coordination	N J Mason (OU)	F. Kupka (UNIVIE)
2 Annual meetings	N J Mason (OU)	All partners involved in WP3
3 Scientific Workshops	N J Mason (OU)	All partners involved in WP3
4 Training Tutorials	N Walton (CMSUC)	UCL; CPTM, INASAN, IAO
5 VAMDC Service	N Walton (CMSUC)	UU - CNRS

### **Description of work**

This activity provides the conduit for communicating both the aims and results of the VAMDC e-

infrastructure. Dissemination activities are aimed at VAMDC's users, the wider European science community, European industrial stakeholders and policy makers. It is intended to provide an attractive platform to exchange and present results, develop new ideas and to network with other data providers and e-infrastructures. This will be accomplished by organizing a high profile annual meeting, being represented at other appropriate conferences and hosting a series of targeted topical workshops and teaching tutorials.

NA2 therefore consists of four tasks:

- 1) Coordination
- 2) Organizing an annual meeting and arranging representation at other relevant meetings
- 2) Organizing themed scientific workshops
- 3) Organizing training tutorials

***Task 1: Coordination (Chair OU(4), Deputy Chair UW\_A(5) )***

Dissemination activities will be a pre-requisite for all VAMDC's activities. Therefore each NA, SA and JRA will nominate a member to prepare the necessary material for disseminating the aims, objectives and results of these activities. Dissemination across the project will be coordinated by the **Communication and Training Committee (CTC)**. The role of the communication and training committee is to propose a list of dissemination and training actions, to organize the general events linked to this project and to compile records of actions. It will be composed of NA2 partners and chaired by the WP3 leader (OU). The CTC will organise the communication and training section of the VAMDC web-site. This section will hold all records of dissemination and training actions and the CTC will be responsible for updating this section with announcements, news, proceedings, and presentations.

***Task 2: Organisation of annual international conference and VAMDC's representation at other relevant meetings***

**Annual meeting** The CTC will organise an annual international conference focused on the VAMDC e-infrastructure, its resources and services. The programme committee will be chaired by OU with UNIVIE as deputy. It will be aimed at users, producers and developers. It will include both academic and non-academic users. This major event will be held each year in a different part of the EU and proceedings will be published (both on line and subject to discussions with scientific publishers in hardcopy – note the UK Institute of Journal of Physics Conference Series have expressed interest in publishing such proceedings).

It is VAMDC's ambition that this meeting become a conference of choice for A&M database providers and for A&M data users (We wish at least one meeting to be combined with the international ICAMDATA conference). The conference will therefore aim to attract a wide audience including many of the key stakeholders we wish to engage with (industrialists, politicians, media). The Conference will also be the location of many of the VAMDC e-infrastructure's necessary management meetings.

**Dissemination via EU national and international existing conferences**

Yearly the CTC will establish a list of national and international conferences where oral presentations and demonstrations on VAMDC will be valuable. These national and international conferences will usually be conferences of producers and users. AOB will be responsible for collating the information and arranging with other partners VAMDC presence at such meetings. The CTC will accordingly prepare suitable display material (in electronic format and hard copy) for display at such meetings which can be used by any of the VAMDC partners.

**Organisation of "regional" tutorials**

Since the VAMDC e-infrastructure is planned as an international activity and includes international partners the CTC will also prepare a list of tutorials that will be held in non-EU countries in order to

spread the knowledge and practice of the VAMDC infrastructure. These tutorials will be organised by our non-EU partners (CPTM, INASAN, IAO, AOB) and will be aimed at people from those "regions".

### ***Task 3: Scientific workshops***

Central to the aims of the VAMDC is the formation of an infrastructure that responds to the needs of its user communities since the major impact of the e-infrastructure will be its adopting by scientific and technology communities. Therefore in order to ascertain the requirements of current and potential VAMDC communities and in order to inform the project we will host a series of themed workshops with such communities. These meetings may be stand alone or more usefully as part of the user community's own conference/meetings programme (through arranged VAMDC sessions). It is anticipated that two such meetings would be per year. Administration of these meetings will be arranged by the CTC.

Proposed topics follow those identified in Section 3 (Impact) and include; The astronomical and planetary science Community (with sessions held at the Euro planet RI meeting, SF2A, IAU meetings); The atmospheric science community (in collaboration with one of the HITRAN database meetings); The technology plasma community (at its European meeting ESCAMPIG); The fusion community (as part of the IAEA meetings for ITER itself part of the EURATOM programmed); The Lighting industry (hosted by Philips ltd) and the radiation sciences community (possibly in collaboration of GEANT meeting and the EU RADAM conference series). Each of the following partners will organize (and when necessary host) one or more such workshops; OU (plasma and radiation sciences); UCL and IAO (atmospheric science and Hitran); CMSUC, AOB, CNRS (astronomy and planetary science); UNIVIE and OU (fusion (with IAEA) and lighting).

### ***Task 4: Training Tutorials***

CMSUC and UCL will prepare material for the partners to use in training workshops both in their own countries and internationally. These tutorials will be focused in developing a user's competence to use the e-infrastructure and to interface it into their own operating systems; Short training sessions will be integrated into the Annual meeting. All partners will be required to nominate one member who will be able to 'train' and/or provide support for their national users. Our non EU partners (CPTM, INASAN, IAO) will also prepare a self-studying e-tutorial for VAMDC users who can not attend such tutorials. We (OU,UCL) will also prepare an e-tool for general public/more general stakeholders such that they can take a virtual guided tour of VAMDC including its current status: statistics, content, geography of clients and producers etc.

### ***Task 5: VAMDC Service & Service Prototype Release***

CMSUC, UU and CNRS will lead the coordinated release of the annual VAMDC prototype service. This will lead to the final release of the VAMDC service infrastructure. The annual prototypes will be reviewed at the yearly project meetings and available for assessment alongside the VAMDC annual reports.

The prototype services will contain the following functionality:

**Level 1:** Preliminary VAMDC service with simple data access to the core VAMDC data resources

**Level 2:** Enhanced interoperable data access to VAMDC data resources, all resources accessible

**Level 3:** Interoperable VAMDC data access with VAMDC tools available (client side or server side accessible via through workflow enactment engines)

**VAMDC Service:** Final full service, including access to resources from the wider community (through the SA1 / Task 6 community call).



## 4. WP3 Tasks Description for Period 1

### Internal Deliverables:

**Task 1;** Dissemination activities are a pre-requisite for all VAMDC's activities. Therefore every activity NA, SA and JRA and Partner will provide nominated members for their activities and organisation with which the **Communication and Training Committee (CTC)** can interact. The CTC itself will be composed of NA2 partners and chaired by N J Mason (OU).

Establish membership of the CTC by April 2010

Meeting of CTC at first annual meeting in April 2010 at OU in UK

The CTC will ensure each partner has an appropriate VAMDC website and design the VAMDC dissemination webpages

### **Task 2: Organisation of annual international conference and VAMDC's representation at other relevant meetings**

To organise the first Annual meeting of the VAMDC infrastructure.

To be held in the UK in April 2010 at or close to Open University. Meeting to include meetings of necessary Boards and CTC. Conference to include a training tutorial and scientific workshop.

To determine meetings and conferences at which VAMDC to be represented and CTC to prepare material for distribution at these meetings. To arrange session at European Planetary Science Congress and discussion with IDIS database providers

*Regional Tutorials* to be held in non-EU partners venue and timings to be arranged for project.

### **Task 3: Organization of Scientific workshops**

Programme of scientific workshops to be determined, with dates and venues

Workshops for 2010 may include joint meetings with RADAM (Madrid June 30 –July 2) on radiation damage and ESCAMPIG (Novi Sad Serbia July 13-17).

### **Task 4: Training Tutorials**

CMSUC and UCL to prepare material for the partners to use in training workshops both in their own countries and internationally. These tutorials will be focused in developing a user's competence to use the e-infrastructure and to interface it into their own operating systems;

All partners will be required to nominate one member who will be able to 'train' and/or provide support for their national users.

Non partners (CPTM, INASAN, IAO) will also prepare a self-studying e-tutorial for VAMDC users who can not attend such tutorials.

OU, UCL will also prepare an e-tool for general public/more general stakeholders such that they can take a virtual guided tour of VAMDC including its current status: statistics, content, geography of clients and producers etc.

### **Task 5: VAMDC Service & Service Prototype Release**

To develop methodology for coordinated release of the annual VAMDC prototype service. First presentation at first annual meeting in April 2010. The prototype services will contain the following functionality:

**Level 1:** Preliminary VAMDC service with simple data access to the core VAMDC data resources

## 5. WP3 Tasks Reports for Period 1

**Period:** 01/07/2009 – 30/06/2010

**WorkPackage:** Working Group 3

**WorkPackage Leader and co-Leader:** OU (N J Mason) and UNIVIE (F Kupka)

Participants in the WorkPackage: CNRS, CMSUC, UCL, OU, UNIVIE, UU, KOLN, AOB, IAO, IVIC, INASAN

### Part 1

A summary of progress towards objectives and details for each tasks

This activity provides the conduit for communicating both the aims and results of the VAMDC e-infrastructure. Dissemination activities are aimed at VAMDC's users, the wider European science community, European industrial stakeholders and policy makers. It is intended to provide an attractive platform to exchange and present results, develop new ideas and to network with other data providers and e-infrastructures. This is to be accomplished by organizing a high profile annual meeting, being represented at other appropriate conferences and hosting a series of targeted topical workshops and teaching tutorials. Links with several other database providers have been established and presentations made at suitable meetings. Relations with the IDIS database of the Europlanet EU project are a particular priority.

**Task 1: Coordination** Dissemination across the project is coordinated by the Communication and Training Committee (CTC) whose role is to propose a list of dissemination and training actions, to organize the general events linked to this project and to compile records of actions. It is composed of NA2 partners and chaired by the WP3 leader (OU), the CTC was established and is responsible for the communication and training section of the VAMDC web-site. This section will hold all records of dissemination and training actions and the CTC will be responsible for updating this section with announcements, news, proceedings, and presentations.

**Task 2: Organisation of annual international conference and VAMDC's representation at other relevant meetings**

The OU node was responsible for hosting the first annual meeting April 18-22, at the Open University, this meeting was primarily to be an organisational meeting of the Project. Arranged over 4 days the first reviewed the programme and progress of the different Work packages. The second day was dedicated to discussion of user requirements and the first set of databases to be incorporated into the VAMDC architecture (VALD Chiant, Basecol) and the tools/schemas being developed to interact with them. The level one service release was reviewed and discussed in detail, The third day was dedicated to a technical workshop reviewing the registry, dictionaries, data mining and the VAMDC Portal. This discussion was continued on

day 4 instead of the scientific workshops with users which was cancelled due to inability of many delegates to attend due to flight cancellations arising from the volcanic eruption.

The second annual meeting will be held in Cambridge in april 2011 and the third in Vienna in 2012 possible with ICAMDATA meeting.

Members of the CTC and other project members have attended both national and international conferences where they made oral presentations and demonstrations on VAMDC. The CTC is preparing suitable display material (in electronic format and hard copy) for display at such meetings which can be *used by any of the VAMDC partners*.

Regional workshops are to be arranged by non-EU partners (IVIC, INASAN, IAO, AOB) with the first being arranged by IVIC. Further workshops will be held once the service prototype is available.

### **Task 3: Scientific workshops**

Three science workshops with users were arranged as per aim of the WP.

1. With the *radiation sciences community* held in collaboration with the EU RADAM conference series in Madrid June 30 to July 4. In a special session the data used and thence the community data needs were reviewed and the aims and objectives of VAMDC reported. In a subsequent discussion session the opportunity for VAMDC to interact with other databases and engage with the modelling community were reviewed. The suggestion of a survey form amongst this community was raised and it was agreed to formulate one in consultation with this community.
2. Using the opportunity arising from the 20<sup>th</sup> ESCAMPIG meeting discussions with *technological plasma community and lighting communities* were arranged. Topical sessions were arranged to both review the databases used by these communities and to seek to engage with them in the construction and development of VAMDC. Much interest was expressed but many wish to see an operational system before judging its use to their research. Several industrial based users requested information on the commercial arrangements of VAMDC since many databases are provided on a cost basis. If they had their own databases they stated there are some commercial sensitivities e.g. in letting rivals what compounds they are investigating may reveal what feed gases etc they are investigating.

### **Task 4: Training Tutorials**

CMSUC and UCL will prepare material for the partners to use in training workshops both in their own countries and internationally once the service prototype is available, this was scheduled for year 2

**Task 5 VAMDC Service & Service Prototype Release** CMSUC and UU will lead the coordinated release of the annual VAMDC prototype service. This will lead to the final release of the VAMDC service infrastructure. The layout and content of the first prototype was reviewed at the first annual meetings and is expected to be available for assessment in September 2010.

#### Significant results (Activities and Deliverables)

- a) Task1: Set up management and coordination of training and dissemination including the Communication and Training Committee
- b) Task 2: Host of the first annual meeting of the VAMDC project held in Open University, Milton Keynes April 18-22. Unfortunately the meeting was disrupted by travel problems due to the Icelandic volcanic eruption which greatly reduced numbers. Agreed venue and organisers of 2011 and 2012 meetings
- c) Task 2: Arranged VAMDC representation at suitable meetings with briefings to interested audiences and engaged with data providers and database organisers.
- d) Task 3: Arranged three scientific workshops to engage with users – Radiation sciences community at its 2010 RADAM meeting in Madrid June 30 –July 4<sup>th</sup>, 2010; The Technology plasma community and lighting industry at the 20<sup>th</sup> ESCAMPIG meeting Belgrade July 13-17, 2010.
- e) Task 3. Developing suitable links with database providers and users
- f) Task 4. Training Tutorials preliminary content and idea discussed at first annual meeting, further development awaiting service prototype release
- g) Task 5. VAMDC Service & Service Prototype Release due autumn (September 2010)

#### Deviations from the contract (Annex I) and reasons for them (if applicable)

Not applicable

#### Failures to achieve critical objectives and/or not being on schedule and reasons for them (if applicable)

- a) The first annual meeting, April 18-22 was disrupted by Icelandic eruption which prevented CTC discussion and cancellation of first meeting with scientific user community.

#### Proposed corrective actions (if applicable)

- a) To arrange CTC meeting around end of year 1 meeting In Paris at end of September.