



German SCIAMACHY Validation Team

**Launch Readiness Review
March 4, 2002**

Inhalt

SCIAMACHY Data Distribution

- EnviView

SCIAMACHY Level 1b – 2 Offline Processor (SGP L12)

SCIAVALIG : WWW-Site

Product coordinator concept

Data delivering schedule

SOST-page online!

Scientific Products IUP/ife Bremen

SCIAMACHY Data Distribution

Based upon *Envisat Ground Segment GSOCF Annex A – Product Distribution during Commissioning Phase – 8 Feb. 2002.*

Event definition:

- T0 = L+12d: start of Level 0 products generation
- T1 = L+15d: start of MPS driven operations (TBC).
- T2 = L+30d: ASM open
- T3 = L+50d: ASM+SRC open.
- T4 = L+81d: ESM open
- T5 = L+108d: state configuration is frozen, nominal operation starts.

Remark: All NRT data are available only for Kiruna orbits (10 of 14), until ARTEMIS available (July/August?).

Level 0/1b NRT:

- TO – T3 : LV0 via Satellite link, LV1b EXABYTE to ESTEC/DLR-IMF
- T3 – T5 : LV0 and Lev 1b via Satellite link
- T5 – L+9 : LV1b via Satellite link, LV0 EXABYTE to DLR-IMF

Level 1b OL:

- Starting with T5 : EXABYTE/DLT to IASB/Hilsenrath/KNMI and partially to ESTEC/DLR-IMF/ife

Level 2:

- Dissemination LV2 NRT starts at T4.
- Distribution via FTP of all products to:
ESTEC / ESRIN / DLR-DFD / KNMI / ife-Bremen / DJO.
- Distribution on CD of *all* products (once per week).

LV2 NRT CDROM distribution – Germany:

Institute/shipping address	Point of contact (TBC)	Which data
IMK/FZK, Germany	T. Blumenstock	L2NRT
AWI, Bremerhaven, Germany	J. Notholt	L2NRT
FHG, Germany	R. Sussmann	L2NRT
IUP/University of Bremen, Germany	J.P. Burrows	L2NRT
DWD, Germany	H. Claude	L2NRT
DLR, Oberpfaffenhofen, Germany	M. Birk	L2NRT
IUP/University of Heidelberg, Germany	K. Pfeilsticker	L2NRT
University of Bonn, Germany	K. H. Fricke	L2NRT
AWI, Potsdam, Germany	P. von der Gathen	L2NRT
IUP/University of Bremen, Germany	J. P. Burrows	L2Meteo

Total is 56 recipients all over the world.

Ballon Campaign Support: LV2-child products via FTP

Point of contact	Institute/shipping address	Which data
N. Vinnichenko	CAO, Russia	L2NRT (Europe)
A. Adriani	CNR-IFA, Italy	L2NRT (Europe)
C. Camy-Peyret	CNRS, France	L2NRT (Europe)
H. Hetzheim	DLR, Berlin, Germany	L2NRT (Europe)
V. Weiss	DLR, Oberpfaffenhofen, Germany	L2NRT (Europe)
G. Giovanelli	FISBAT-CNR, Italy	L2NRT (Europe)
C. Schiller	FZJ, Germany	L2NRT (Europe)
C. E. Blom	IMK/FZK, Germany	L2NRT (Europe)
S. Kirkwood	Institute for Space Physics, Sweden	L2NRT (Europe)
B. Carli	IROE-CNR, Italy	L2NRT (Europe)
J. P. Burrows	IUP/University of Bremen, Germany	L2NRT (Europe)
K. Pfeilsticker	IUP/University of Heidelberg, Germany	L2NRT (Europe)
H. Fischer	MPI-Mainz, Germany	L2NRT (Europe)
P. Woods	National Physical Laboratory, Teddington, U. K.	L2NRT (Europe)
I. Aben	SRON, NL	L2NRT (Europe)
K. Labitzke	University of (Free) Berlin, Institute for Meteorology, Germany	L2NRT (Europe)
M. P. Chipperfield	University of Cambridge, U. K.	L2NRT (Europe)
C. M. Volk	University of Frankfurt, Germany	L2NRT (Europe)

Summary LV2-NRT

- First LV2 at L+81d (End of May).
- Operational LV2 at L+109d (End of July).
- Distribution via FTP to limited number of users.
- Distribution via CD to 56 institutions (All LV2 for all groups).
- Ballon campaign support with child products via FTP.

EnviView

- Result of 2nd rehearsal: man bugs, poor performance
- faster version announced with improved features:
 - SciaL1C: LV1b to LV1c calibration
 - pds2ascii/pds2hdf:
command line tools *pds* to ASCII/HDF
- Status: on its way right now!

SCIAMACHY Level 1b – 2 Offline Processor (SGP L12)

Release schedule:

Date	Processing availability of SGP L12
1 July 2002	DOAS based on GDP 2.4 <i>UV/vis nadir</i>
1 July 2002	BIAS <i>IR nadir</i>
30 November 2002	Limb in UV/VIS spectral region


After Commissioning Phase: Implementation of DOAS based on GDP 3.0

According to: *Richard Balmer, DLR*

Limb IR ???

SCIAVALIG : WWW-Site

<http://www.knmi.nl/sciamachy-validation/>



SCIAMACHY VALIDATION

Home

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[Literature](#)

[Links](#)

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SCIAMACHY

Info for validation teams

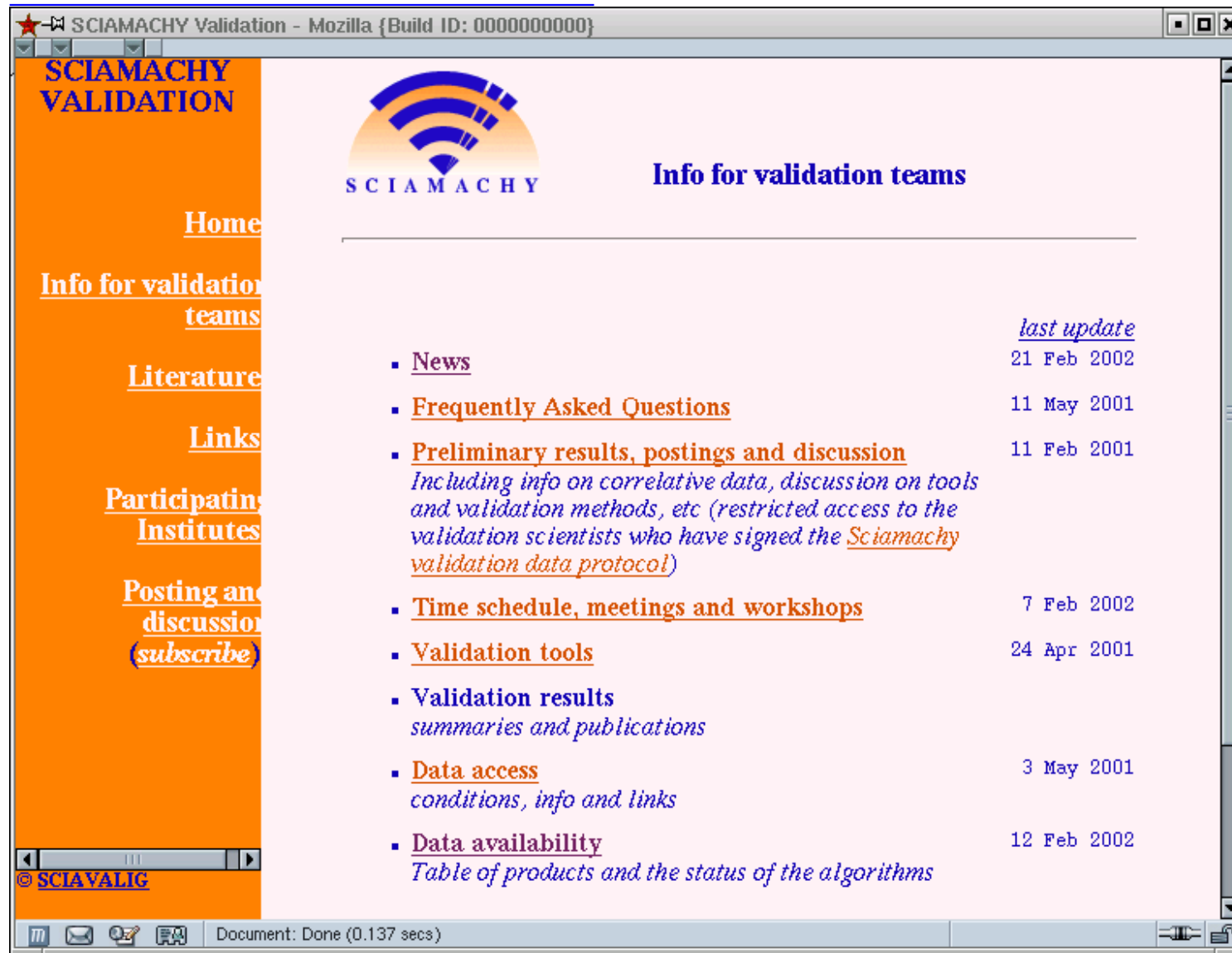
	<i>last update</i>
▪ News	21 Feb 2002
▪ Frequently Asked Questions	11 May 2001
▪ Preliminary results, postings and discussion <i>Including info on correlative data, discussion on tools and validation methods, etc (restricted access to the validation scientists who have signed the SciAmachy validation data protocol)</i>	11 Feb 2001
▪ Time schedule, meetings and workshops	7 Feb 2002
▪ Validation tools	24 Apr 2001
▪ Validation results <i>summaries and publications</i>	
▪ Data access <i>conditions, info and links</i>	3 May 2001
▪ Data availability <i>Table of products and the status of the algorithms</i>	12 Feb 2002

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SCIAVALIG discussion site

<http://www.knmi.nl/sciamachy-validation/>



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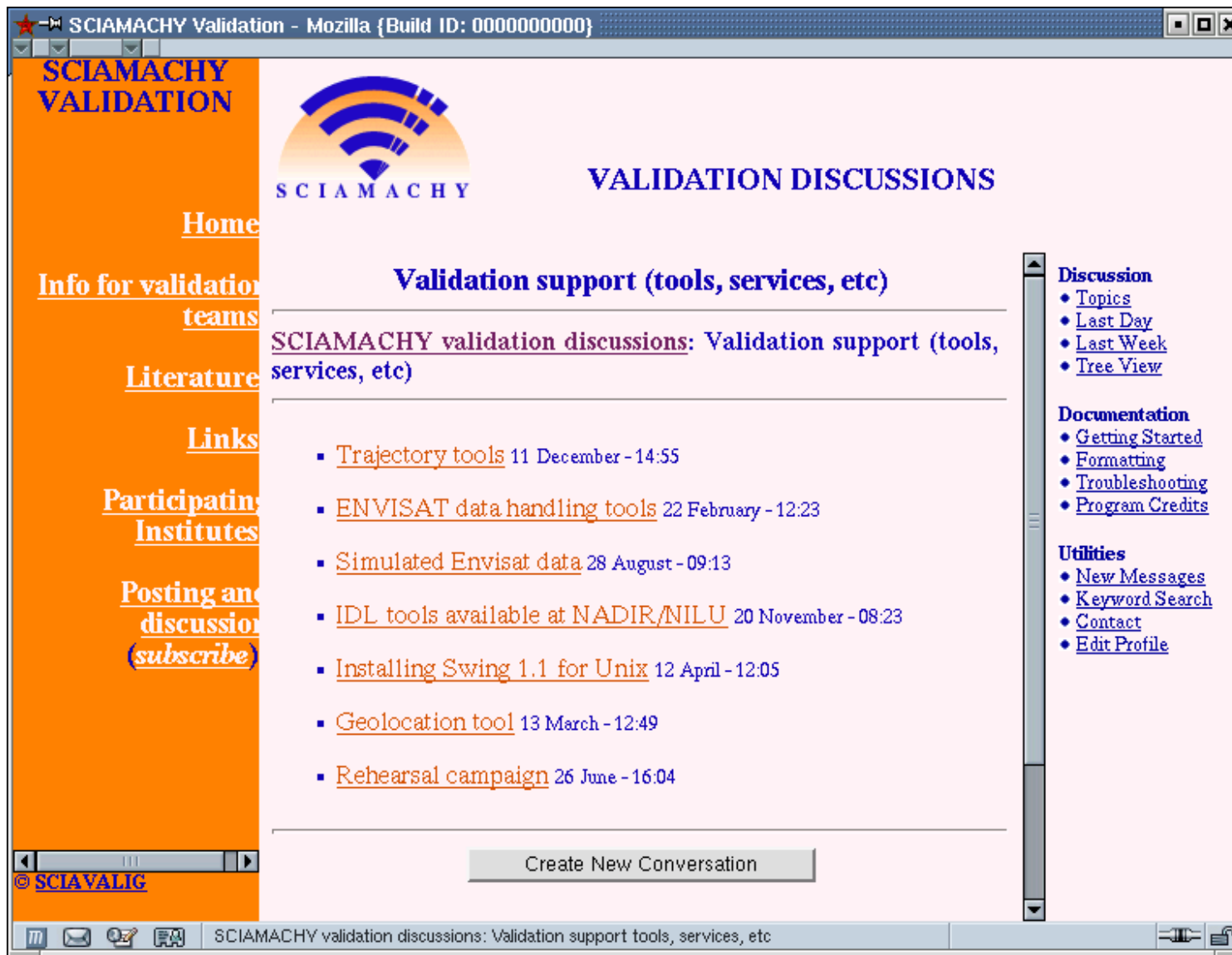
SCIAMACHY

Info for validation teams

	<i>last update</i>
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SCIAMACHY Validation - Mozilla {Build ID: 0000000000}

SCIAMACHY VALIDATION

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Validation support (tools, services, etc)

SCIAMACHY validation discussions: Validation support (tools, services, etc)

- [Trajectory tools](#) 11 December - 14:55
- [ENVISAT data handling tools](#) 22 February - 12:23
- [Simulated Envisat data](#) 28 August - 09:13
- [IDL tools available at NADIR/NILU](#) 20 November - 08:23
- [Installing Swing 1.1 for Unix](#) 12 April - 12:05
- [Geolocation tool](#) 13 March - 12:49
- [Rehearsal campaign](#) 26 June - 16:04

[Create New Conversation](#)

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Discussion

- [Topics](#)
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- [Last Week](#)
- [Tree View](#)

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SCIAMACHY validation discussions: Validation support tools, services, etc

Product coordinator concept

Concept:

- Organization by product, not by measurement type (Groundbased/Ballon...)
- One person has an overview over the validation results of one *product*.
- Communication mainly via SCIAVALIG WWW-Site:
 - One discussion forum per product.
 - A *known problems*-list per product.
- Implementation by SCIAVALIG in the next month.

Goals:

- Stimulation of discussion between validation groups.
- Product coordinators are involved in (via SCIAVALIG):
 - product quality statements
 - processor upgrade decisions
- Summary statement of product quality for validation workshop.
- Summary paper per product after main validation phase.

Data delivering schedule

Sciamachy data availability (status February 2002)

Nadir (NRT+OL)			Limb (OL)		
UV/Vis	IR	UV/IR	UV/Vis	IR	UV/Vis
O3 (v)	H2O (v)	Cloud	O3 (p)	H2O (p)	Aerosol
NO2 (v)	N2O (v)	AAI	NO2 (p)	N2O (p)	
BrO (s)	CO (v)		BrO (p)	CO (p)	
SO2 (s)	CO2 (v)			CO2 (p)	
OCIO (s)	CH4 (v)			CH4 (p)	
HCHO (s)				p,T (p)	
UV index					

Red No algorithm available yet for this parameter

Yellow Result of present algorithm may deliver poor quality or quality has not yet been tested

(v) Vertical column

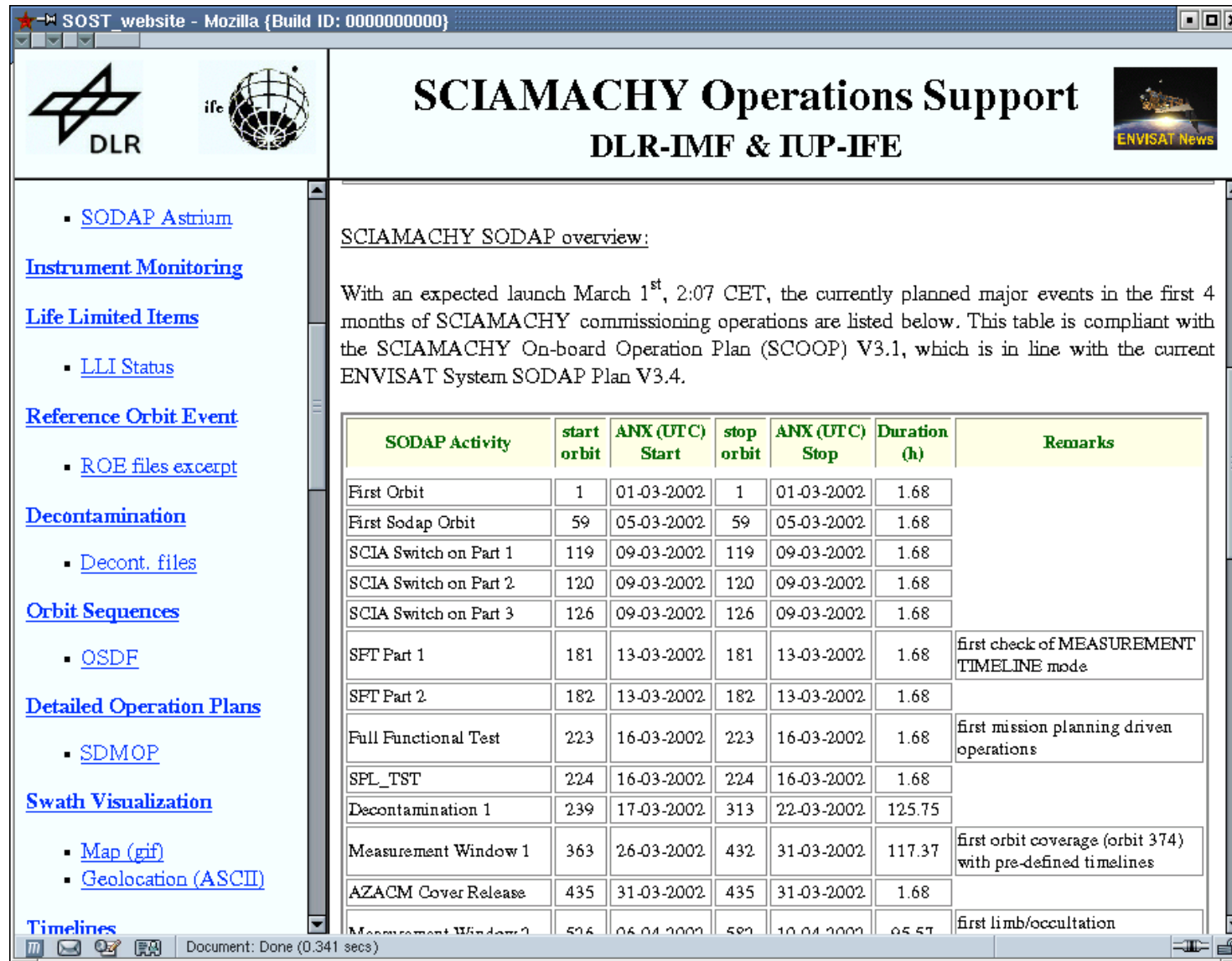
(s) Slant column

Green Products will be available from 30 November 2002

Cyan Algorithms will be implemented in a later stage, i.e. probably not available in 2002

(p) Vertical profile

SOST-page online!



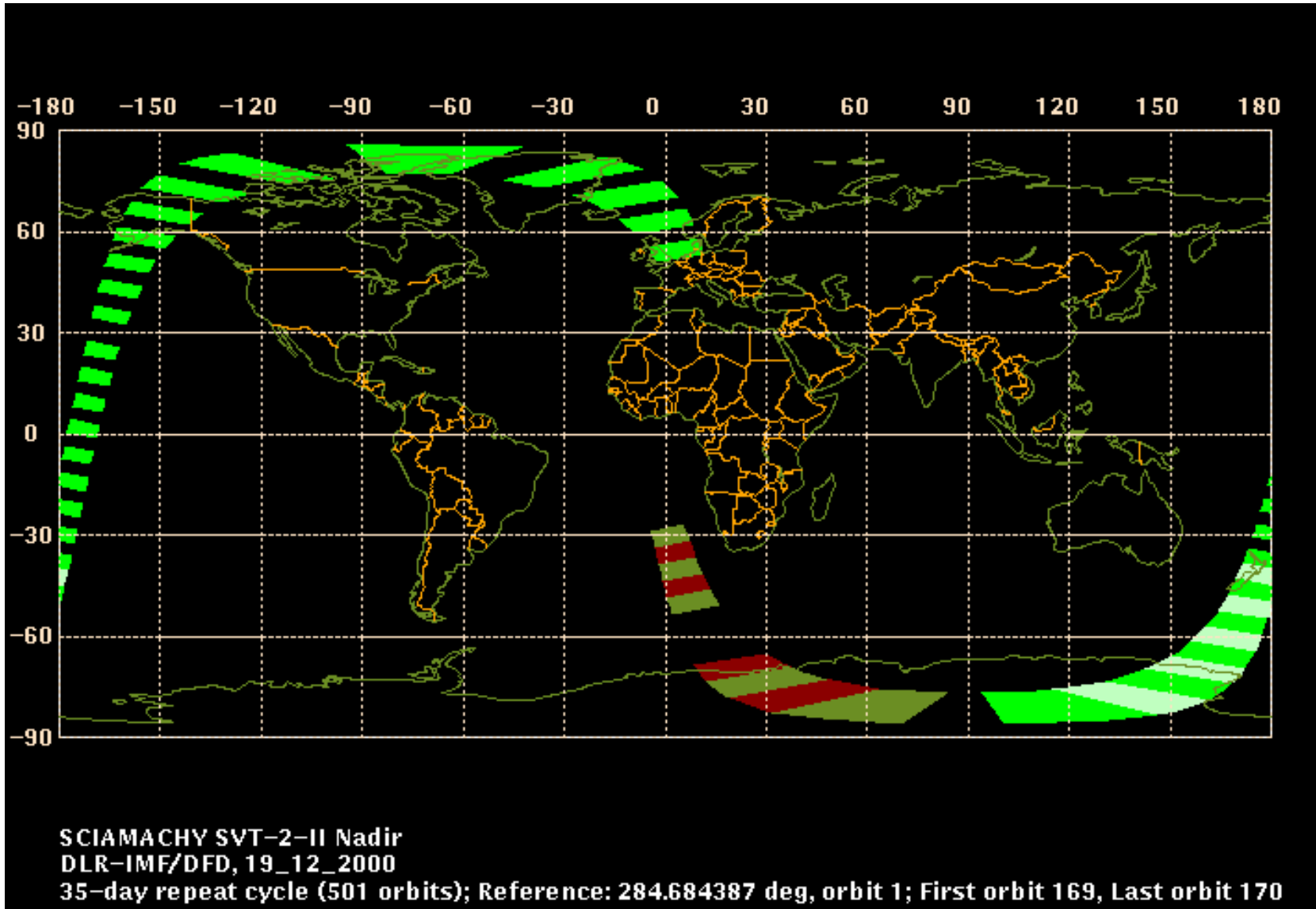
SCIAMACHY Operations Support
DLR-IMF & IUP-IFE

SCIAMACHY SODAP overview:

With an expected launch March 1st, 2:07 CET, the currently planned major events in the first 4 months of SCIAMACHY commissioning operations are listed below. This table is compliant with the SCIAMACHY On-board Operation Plan (SCOOP) V3.1, which is in line with the current ENVISAT System SODAP Plan V3.4.

SODAP Activity	start orbit	ANX (UTC) Start	stop orbit	ANX (UTC) Stop	Duration (h)	Remarks
First Orbit	1	01-03-2002	1	01-03-2002	1.68	
First Sodap Orbit	59	05-03-2002	59	05-03-2002	1.68	
SCIA Switch on Part 1	119	09-03-2002	119	09-03-2002	1.68	
SCIA Switch on Part 2	120	09-03-2002	120	09-03-2002	1.68	
SCIA Switch on Part 3	126	09-03-2002	126	09-03-2002	1.68	
SFT Part 1	181	13-03-2002	181	13-03-2002	1.68	first check of MEASUREMENT TIMELINE mode
SFT Part 2	182	13-03-2002	182	13-03-2002	1.68	
Full Functional Test	223	16-03-2002	223	16-03-2002	1.68	first mission planning driven operations
SPL_TST	224	16-03-2002	224	16-03-2002	1.68	
Decontamination 1	239	17-03-2002	313	22-03-2002	125.75	
Measurement Window 1	363	26-03-2002	432	31-03-2002	117.37	first orbit coverage (orbit 374) with pre-defined timelines
AZACM Cover Release	435	31-03-2002	435	31-03-2002	1.68	
Measurement Window 2	516	06-04-2002	581	10-04-2002	85.57	first limb/occultation

Swath Visualization Map



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- SOST: SCIAMACHY Operations Support Team
 - SOST Web page online since 20 February 2002
 - Contents:
 - Overview of operations concept.
 - Actual planning issues (dynamic information).
 - Tool to follow the operational status of the instrument.

<http://atmos.af.op.dlr.de/projects/scops/>

Scientific Products IUP/ife Bremen

Products in Bremen