

COSIMA Team and Data Archiving

M. Hilchenbach et COSIMA Team







.....just some in-situ experiments with cometary dust particles next to comet 67P.... history

brief overview of main archive products (example how to access them)



Explore ESA's Planetary Science Archive!



The European Space Agency's Planetary Science Archive (PSA) is the central repository for all scientific and engineering data returned by ESA's Solar System missions: currently Giotto, Huygens, Mars Express, Rosetta, SMART-1, and Venus Express, as well as several ground-based cometary observations.

The PSA uses NASA's Planetary Data System standards as a baseline for the formatting and structure of all data contained within the archive. Learn more...

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ROSETTA Shape Model and Reference Frame Data • Reference Frames and Mapping Schemes of Comet 67P (Comet Reference Frame) • Shape Models of 67P/Churyumov-Gerasimenko (Comet Shape Models) **Rosetta Orbiter Data** • Ultraviolet Imaging Spectrometer (ALICE) • Comet Nucleus Sounding Experiment by Radiowave Transmission (CONSERT) Cometary Secondary Ion Mass Analyser (COSIMA) Grain Impact Analyser and Dust Accumulator (GIADA) Micro-Imaging Dust Analysis System (MIDAS) Microwave Instrument for the Rosetta Orbiter (MIRO) Please acknowledge the Principal Investigator(s) as well as the ESA Planetary Science Archive when making a publication using the data you are going to download. Principal Investigator(s): M. Hilchenbach (MPS, Göttingen, Germany) OK RPC Fluxgate Magnetometer (RPCMAG) • RPC Mutual Impedance Probe (RPCMIP) • Radio Science Investigation (RSI) • Visible and Infrared Thermal Imaging Spectrometer (VIRTIS) **Philae Lander Data** Alpha X-ray Spectrometer (APXS) • CIVA (CIVA) Comet Nucleus Sounding Experiment by Radiowave Transmission (CONSERT) Cometary Sampling and Composition experiment (COSAC) • Multi-Purpose Sensors for Surface and Subsurface Science (MUPUS) MODULUS PTOLEMY (PTOLEMY) Rosetta Lander Imaging System (ROLIS) • Rosetta Lander Magnetometer and Plasma Monitor (ROMAP) • Sample and Distribution Device (SD2) Surface Electrical, Seismic and Acoustic Monitoring Experiments (SESAME) **Ancillary Data** SPICE Repository • SPICE PDS Data Set • ESOC Ancillary Information Visit the mission page for more information Rosetta is an international mission and data are jointly archived at PSA and NASA's PDS Small Bodies Node. Access to the Rosetta holdings at PDS SBN can be found here.

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European Space Agency Research and Science Support Department Planetary Missions Division

ROSETTA-COSIMA

To Planetary Science Archive Interface Control Document

FMI_S-COS-ICD-001-AD-07

Issue 1.8

30-June 2016

COSIMASIS.pdf

Prepared by: Maria Genzer, Jouni Rynö, FMI

Approved by: Johan Silen, FMI









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The spectrum can be divided in time to at most tree different subspectrums to reduce the amount of data to be transmitted.

The product files have the naming convention

CS_YXX_YYYYMMDDTHHMMSS_SP_Z.TAB, where the Y is either 1 for top, 2 for middle and 3 for bottom substrate. The XX is target holder number in the range C1 to D8, counting in hexadecimal number base. The YYYYMMDDTHHMMSS gives the start year, month, day, hour, minute and second. The Z is P for positive and N for negative ion spectrum.

peaks

Generated as the spectrum, but the spectrum mass scale is established onboard COSIMA. The list of 300 first organic and inorganic peaks is transmitted. For higher masses, the total of count hits for a mass range is given. For the definition of the peak separation see the EAICD document.

The product files have the naming convention CS_YXX_YYYYMMDDTHHMMSS_PK_Z.TAB, where the Y is either 1 for top, 2 for middle and 3 for bottom substrate. The XX is target holder number in the range C1 to D8, counting in hexadecimal number base. The YYYYMMDDTHHMMSS gives the start year, month, day, hour, minute and second. The Z is P for positive and N for negative ion spectrum.

scan

Used for instrument calibration, gain optimisation or when moving over the substrate, to make a measurement matrix. Produces total sum of the event counts over three possible time windows.

The product files have the naming convention CS_YXX_YYYYMMDDTHHMMSS_SCAN.TAB, where the Y is either 1 for top, 2 for middle and 3 for bottom substrate. The XX is target holder number in the range C1 to D8, counting in hexadecimal number base. The YYYYMMDDTHHMMSS gives the start year, month, day, hour, minute and second. The Z is P for positive and N for negative ion spectrum.

heat

The substrate can be heated to clean it or to analyse volatile dust. The product contains the heating curve.

The product files have the naming convention CS_YXX_YYYYMMDDTHHMMSS_HEAT.TAB, where the Y is either 1 for top, 2 for middle and 3 for bottom substrate. The XX is target holder number in the range C1 to D8, counting in hexadecimal number base. The YYYYMMDDTHHMMSS gives the start year, month, day, hour, minute and second. The Z is P for positive and N for negative ion spectrum.

clean

The single substrate position can be cleaned by the Indium ion beam. The product contains the emitter tip current housekeeping statistics.

The product files have the naming convention CS YXX YYYYMMDDTHHMMSS SCAN.TAB, where the Y is either 1 for



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| | CS_1D1_20151225T143511_IM_P.LBL | 4 KB | 23/06/2016 | 00:00:00 CEST | |
| | CS_1D1_SUBSTRATE_HIST.TAB | 293 KB | 23/06/2016 | 00:00:00 CEST | |
| | CS_1D1_SUBSTRATE_POSITION.TAB | 193 KB | 25/06/2016 | 00:00:00 CEST | |

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| PRODUCER_ID PRODUCER_ID | = ".TOHAN | STLEN" | | | | | | | |
| PRODUCER INSTITUTION NAME | = "FINNT | SH METEOROLOG | | יידיידיי | | | | | |
| DATA QUALITY ID | = "-1" | | ICH INDI | | | | | | |
| DATA QUALITY DESC | = "-1 = | not checked" | | | | | | | |
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| FND OBTECT | - SUBST | V TARLE HISTORY | | | | | | | |
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| 2015-04-08T1/:00:00,2015-04-08 2015 04 08m17-00-00 2015 04 08 | 117.02.3/, | 156," | IMAGE" | 0, 0, | 2, | $-1, CS_{1D1}_{201}$ | 15040811/0000 | U_IM_M.LBL" | , C5_ID1_20150408T1/0000_G_HK.TAB" |
| 2015-04-00117:00:00,2015-04-08 2015-04-08017:00:00 2015-04 09 | 11/:02:3/, | 156 " | CRAINC" | | 2, | -1 CS_1D1_201 | 1504061170000 | ОСВ ШУБ. ОТЫТЬ.ТВР | , CS_IDI_20150400T170000_G_HK.TAB |
| 2015-04-08-08-00:00,2015-04-08 | r19:51.50 | 3562 " | HEDL. | | · · · · | | 1504081185234 | 6 HEAT TAB | , CP_IDI_2013040011/0000_G_UV.1WB |
| 2015-04-08T19:53:59-2015-04-08 | r20:52:17 | 3497." | HEAT" | 0. 0. | . 0. | -1,"CS 101_201 | 150408 195359 | HEAT.TAR | , N/A " N/A" |
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| 2015-04-10118:18:12,2015-04-10 | 10.20:40, | 147," | IMAGE" | , U, O, | , 2, | -1, °CS_1D1_201 | 150410T181812 | 2_IM_M.LBL" | , "CS_1D1_20150410T181812_G_HK.TAB" |
| 2015-04-10T18:18:12,2015-04-105 2015 04 10m19-19-12 2015 04 105 | 123:20:40, | 147," | IMAGE" | 0, 0, | 2, | $-1, CS_{1D1}_{201}$ | 1504101181812 | 2_IM_P.LBL" | , C5_1D1_20150410T181812_G_HK.TAB" |
| 2015-04-10T18:18:12,2015-04-10 2015 04 10m19-20-00 2015 04 10m | 10.20:40, | 122 " | GRAINS" | 0, 0, | 2, | $-1, CS_{1D1}_{201}$ | 1204101181812 | 2_GKTAB" | $, C_{0} = 1D1 = 20150410T181812 G HK.TAB^{"}$ |
| 2013-04-10118:28:00,2015-04-10 | 110:30:14, | 133, | IMAGE | <u> </u> | <u> </u> | <u>-1, CS_IDI_201</u> | 1204101185800 | _ты_ы•гяг | , C5_1D1_20150410T182800_G_HK.TAB" |

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| DESCRIPTION | ROW_BYTES ^STRUCTURE | = 123 - "COSTMA DOSTUTON EMT" | |
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compressed image left



compressed image right



composite image



CS_1D1_20150410T180810_IM_M.FIT

CS_1D1_20150410T181120_IM_M.FIT

linear scale

image exposed with right LED



image exposed with left LED



CS_1D1_20150410T180810_IM_P.FIT + CS_1D1_20150410T181120_IM_P.FIT

CS_1D1_20150410T180810_IM_M.FIT + CS_1D1_20150410T181120_IM_M.FIT

log scale

image exposed with right LED



CS_1D1_20150410T180810_IM_P.FIT + CS_1D1_20150410T181120_IM_P.FIT

image exposed with left LED



CS_1D1_20150410T180810_IM_M.FIT + CS_1D1_20150410T181120_IM_M.FIT

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| LABEL_REVISION_NOTE = "V1.3" | |
| /* FILE FORMAT */ | |
| RECORD_TYPE = FIXED_LENGTH | |
| $\begin{array}{llllllllllllllllllllllllllllllllllll$ | |
| LABEL RECORDS = 115 | |
| /* POINTER TO DATA OBJECTS */ | |
| $SCALE_TABLE = 116$ | |
| MASS_SPECTROM_TABLE = 117 | |
| /* GENERAL DATA DESCRIPTION PARAMETERS */ | |
| $FILE_NAME = "CS_1D1_20150411T112311_SP_P.TAB"$ | |
| DATA_SET_ID = "RO-C-COSIMA-3-V5.0" DATA_SET_NAME = "DOSETTED 67D COSIMA 3 V5.0" | |
| PRODUCT ID = "CS 1D1 20150411T112311 SP P" | |
| $PRODUCT_CREATION_TIME = 2016-05-20T22:27:30$ | |
| $PRODUCT_TYPE = "REFDR"$ | |
| PROCESSING_LEVEL_ID = "3" | |
| MISSION_ID = ROSETTA MISSION NAME = "INTERNATIONAL ROSETTA MISSION" | |
| MISSION PHASE NAME = "COMET ESCORT 2" | |
| INSTRUMENT_HOST_ID = "RO" | |
| INSTRUMENT_HOST_NAME = "ROSETTA-ORBITER" | |
| INSTRUMENT_ID = COSIMA INSTRUMENT NAME = "COMETARY SECONDARY ION MASS ANALYZER" | |
| INSTRUMENT TYPE = "MASS SPECTROMETER" | |
| INSTRUMENT_MODE_ID = "SPECTRUM" | |
| INSTRUMENT_MODE_DESC = "TIME OF FLIGHT MASS SPECTRUM MEASUREMENT" | |
| TARGET_NAME = $6/P/CHORYOMOV-GERASIMENKO I (1969 RI)$ TARGET_TYPE = "COMET" | |
| START TIME = $2015-04-11T11:23:11$ | |
| STOP_TIME = $2015-04-11T11:34:10$ | |
| $SPACECRAFT_CLOCK_START_COUNT = "1/0387372115.40475"$ | |
| SPACECRAFT_CLOCK_STOP_COUNT = $1/038/3/2//4.40460$ SC SUN POSTTION VECTOR = "N/A" | |
| SC TARGET POSITION VECTOR = N/A | |
| SC_TARGET_VELOCITY_VECTOR = "N/A" | |
| $SPACECRAFT_ALTITUDE = "N/A"$ | |
| SUB_SPACECRAFT_LATITUDE = "N/A" SUB_SPACECRAFT_LONGITUDE = "N/A" | |
| PRODUCER ID = "FMI" | |
| PRODUCER_FULL_NAME = "JOHAN SILEN" | |
| PRODUCER_INSTITUTION_NAME = "FINNISH METEOROLOGICAL INSTITUTE" | |
| DATA_QUALITY_ID = -1 DATA_QUALITY_DESC = "-1 = not_checked" | |
| ROSETTA: PIPELINE_VERSION_ID = "version 2.4" | |
| ROSETTA:COSIMA_SUBSTRATE_ID = "1D1" | |
| ROSETTA:COSIMA_SUBSTRATE_DESC = "Silver, blank" | |
| ROSETTA:COSIMA_SOBSTRATE_X = 5000 ROSETTA:COSIMA_SUBSTRATE_Y = 5000 | |
| ROSETTA:COSIMA_SUBSTRATE_Z = 0 | |
| ROSETTA:COSIMA_SPECTRUM_POL = "POSITIVE" | |
| ROSETTA:COSIMA_SPECTRUM_SHOTS = 225013 | |
| OBJECT = SCALE_TABLE | |
| NAME = SCALE | |
| INTERCHANGE_FORMAT = ASCII | |
| $\begin{array}{c} -1 \\ \text{COLUMNS} \\ = 3 \end{array}$ | |
| ROW_BYTES = 30 | |
| ^STRUCTURE = "COSIMA_SPECTRUM_PEAK_SCALE.FMT" DESCRIPTION = "COSIMA_PEAK_LIST MASS_SCALE" | |

| psa.esac.esa.int/pub/mirror, | |
|---|---|
| 1 (ftp://psa.esac.esa.int/pu | b/mirror/INTERNATIONAL-ROSETTA-MISSION/COSIMA/RO-C-COSIMA-3-V5.0/DATA/SUB_1D1/CS_1D1_20150411T112311_ |
| 📑 Google News 🔝 ADS (authors="HIL | 😵 Google Scholar 🔄 Google Übersetzer 🔤 Molecular Weight S 🝻 Index of /data/cos ∓ Rosetta Science Gr 随 bahn.de - |
| DESCRIPTION END_OBJECT | = COSIMA_SPECTROM_PEAK_SCALE.FMT = "COSIMA PEAK LIST MASS SCALE" = SCALE_TABLE |
| OBJECT NAME INTERCHANGE_FORMAT ROWS COLUMNS ROW_BYTES ^STRUCTURE DESCRIPTION END_OBJECT | <pre>= MASS_SPECTRUM_TABLE = MASS_SPECTRUM = ASCII = 131072 = 3 = 30 = "COSIMA_SPECTRUM_DATA.FMT" = "COSIMA_TIME OF FLIGHT MASS_SPECTRUM" = MASS_SPECTRUM_TABLE</pre> |
| DESCRIPTION END_OBJECT END 1581.00, 3073.00, 0.0 0, 0, -3.77800 1, 0, -3.77554 2, 0, -3.77308 3, 0, -3.77062 4, 0, -3.76817 5, 0, -3.76571 6, 0, -3.76326 7, 0, -3.76080 8, 0, -3.75590 10, 0, -3.75590 10, 0, -3.75590 10, 0, -3.75590 10, 0, -3.74610 12, 0, -3.7465 13, 0, -3.74610 14, 0, -3.74365 15, 0, -3.74120 16, 777, -3.73876 17, 3, -3.73631 18, 1, -3.73387 19, 1705, -3.73142 20, 61, -3.72898 21, 4, -3.72654 22, 12, -3.72409 23, 1, -3.72165 24, 6, -3.71921 25, 3, -3.71677 26, 4, -3.71434 27, 2, 3.71190 28, 0, -3.70946 29, 3, -3.70703 30, 1, -3.69472 33, 2, -3.69729 34, 1, 0, -3.69010 37, 2, -3.68757 38, 1, -3.6 | - LUGIAR LARD OF FLART RASS SPECTRO |
| 45, 1, -3.66816 46, 0, -3.66574 47, 0, -3.66331 | |

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|---------------|------------|-----------------|-------------------|------------------|
| | ftp://psa | .esac.esa.int/p | ub/mirror/INTERNA | TIONAL-ROSETTA- |
| Google News | 🔝 ADS | (authors="HIL | 😵 Google Scholar | 🔄 Google Überset |
| 19999, | Ο, | 114.53809 | | |
| 20000, | 0, | 114.55157 | | |
| 20001, | 1, | 114.56505 | | |
| 20002, | υ, | 114.5/854 | | |
| 20003, | 1. | 114.60551 | | |
| 20005, | 1, | 114.61902 | | |
| 20006, | 1, | 114.63249 | | |
| 20007, | 0, | 114.64599 | | |
| 20008, | 1, 1 | 114.65949 | | |
| 20010. | 0, | 114.68647 | | |
| 20011, | 0, | 114.69997 | | |
| 20012, | Ο, | 114.71346 | | |
| 20013, | 0, | 114.72696 | | |
| 20014, | 2, | 114.74045 | | |
| 20016, | 0, | 114.76746 | | |
| 20017, | 1, | 114.78094 | | |
| 20018, | 1, | 114.79445 | | |
| 20019, | 3, | 114.80796 | | |
| 20020, | 2, | 114.83496 | | |
| 20022, | 4, | 114.84846 | | |
| 20023, | 9, | 114.86196 | | |
| 20024, | 21, | 114.87547 | | |
| 20025, | 24, | 114.88896 | | |
| 20027, | 18, | 114.91599 | | |
| 20028, | 14, | 114.92949 | | |
| 20029, | 14, | 114.94300 | | |
| 20030, 20031 | 14, | 114.95652 | | |
| 20032, | ο, | 114.98354 | | |
| 20033, | 1, | 114.99704 | | |
| 20034, | 1, | 115.01056 | | |
| 20035, | U, 1 | 115.02408 | | |
| 20037, | Ĵ, | 115.05110 | | |
| 20038, | 1, | 115.06463 | | |
| 20039, | 2, | 115.07813 | | |
| 20040, | 0, | 115.09165 | | |
| 20042, | 1, | 115.11869 | | |
| 20043, | ō, | 115.13222 | | |
| 20044, | 0, | 115.14572 | | |
| 20045, | 1, | 115.15925 | | |
| 20048, 20047. | 1, | 115.18629 | | |
| 20048, | ō, | 115.19982 | | |
| 20049, | 0, | 115.21336 | | |
| 20050, | 1, | 115.22687 | | |
| 20052, | 0, | 115.25391 | | |
| 20053, | Ō, | 115.26745 | | |
| 20054, | 1, | 115.28099 | | |
| 20055, | 1, | 115.29450 | | |
| 20057, | 0, | 115.32158 | | |
| 20058, | 0, | 115.33510 | | |
| 20059, | 0, | 115.34864 | | |
| 20060, | 1, | 115.36216 | | |
| 20062 | 1, 0, | 115.38924 | | |



... and, what to use the data for....



Dust particle morphology and flux





light-curves and images of particles in optical microscope

Langevin 2017



Fluxes and size distribution

Superposition of all the particles collected Merouane 2017



ISO ISO ISO Universität München W



Dust particle composition

