

## ESO Phase 3 Data Release Description

<b>Data Collection</b>	GOODS_FORS2
<b>Release Number</b>	1
<b>Data Provider</b>	C. Cesarsky
<b>Date</b>	30.10.2007 – update 11.07.2014

# GOODS/FORS2 Final Data Release: Version 3.0

As part of the Great Observatories Origins Deep Survey (GOODS), multi-object, optical to NIR spectroscopy in the Chandra Deep Field South (CDF-S) has been carried out, using the FORS2 instrument mounted at the Kueyen Unit Telescope of the VLT at ESO's Cerro Paranal Observatory, Chile.

This final, cumulative data release of spectroscopy of faint galaxies in the Chandra Deep Field South (CDF-S), resulting from the ESO/GOODS large program under program IDs 170.A-0788, 074.A-0709, and 275.A-5060 (PI Cesarsky), supersedes all previous releases. This release accumulates 1715 spectra of 1225 unique targets which have been obtained with the FORS2 spectrograph between September 2002 and October 2006, providing in total 1165 redshift measurements, thereof being 663, 309, and 193 redshifts with quality flag A (solid redshift), B (likely redshift), and C (potential redshift), respectively. 868 of the unique targets have an assigned redshift ( $z>0$ ) with quality flag A, B or C. The average of the redshift distribution ( $z>0$ ) is  $z=1.666$  (median  $z=1.158$ ). The typical error in the redshift determination (of course it depends on the S/N of the spectrum) is in general  $\pm 0.001$  as we calculated in the paper II (A&A 454, 423-435 (2006)) by comparing the redshift of sources in common with other spectroscopic survey. New in this release are 441 spectra which have been obtained between October 2005 and October 2006 using 12 different MXU masks, thus significantly extending the redshift sample by 194 unique targets with respect to the previous release (v2.0).

In this release we provide the full set of extracted 1-dimensional fits spectra in the GOODS/FORS2 survey and associated spectral previews and colour image cutouts (5"x5") for each target. Furthermore, a catalogue is provided where we give for each target the basic ACS image information such as magnitude (in the AB system) and colours as well as the measured redshift and associated comments.

A full description of the survey can be found in the accompanying papers "The Great Observatories Origins Deep Survey - VLT/FORS2 Spectroscopy in the GOODS-South Field", 2005, A&A, 434, 53 (description of the first spectroscopic campaign), "[The Great Observatories Origins Deep Survey - VLT/FORS2 Spectroscopy in the GOODS-South Field - Part II](#)", 2006, A&A, 454, 423 (results of the second campaign), and "The Great Observatories Origins Deep Survey - VLT/FORS2 Spectroscopy in the GOODS-South Field: Part III", 2008, A&A, 478, 83.

The data were reduced and prepared for release by a collaboration of the GOODS Team, ESO (Advanced Data Products group in the Virtual Observatory Systems department) and ST-ECF staff.

The Archive Science Group migrated the GOODS-FORS2 DR3 to the Phase 3 infrastructure allowing seamless publication with the Science Data Products. Although it was possible to recover the information needed for most of the files, ASG would like to inform the archive users that for 111 science data products (1D-spectra) out of 1715 files (~6%) it was not possible to trace back the provenance information. Hence the header keywords PROVi and OBIDi are missing. Moreover for some other files the keywords NCOMBINE, EXPTIME and the number of PROV keywords may not be correct/complete.

The files possibly affected are listed at the end of this document. The original file name information is recorded in the ORIGFILE header keyword of the FITS files.

## Overview and field layout



Spatial distribution in the GOODS-S field of the FORS2 spectroscopic catalog (887 redshift determinations).

In order to have a sufficient surface density of targets and fully exploit the red sensitivity of FORS2, spectroscopic targets have been selected according to the following color selection criteria (all magnitudes are in the AB system in the ACS/GOODS filter set):

Primary catalog:  $(i-z) > 0.6$ ,  $z < 26$

Secondary catalog:  $0.45 < (i-z) < 0.6$ ,  $z < 26$

and

$1.0 < z_{\text{phot}} < 2.0$ .

When designing slit-masks, higher priority was assigned to brighter objects (in z-band). An additional catalog of "fillers" was constructed using objects with photometric redshift in the range  $1.0 < z < 2$  (not already included in the main catalogs), and a number of interesting B\_435, V\_606 and i\_775 dropouts (with no z\_mag limit). Please refer to the publication Vanzella et al. 2008, A&A, 478, 83. for the complete description of the target selection procedure.

# Release content

## Summary of reduced FORS2 observations

A total of 1715 spectra could be extracted from the FORS2 observations and are presented in this release. For 81 objects we combined spectra from different masks to provide a higher signal-to-noise spectrum - the so called "stacked" spectra. These spectra are provided in addition to the normal 1-dimensional fits files. Throughout the FORS2 survey, 1" wide slits have been used with a wavelength range of approximately 6000 to 10000 Å sampled at roughly 3.2 Å/pixel.

The ACS catalog was used for slit-mask design and ACS imaging was used to design slit-masks after registration with FORS2 preimaging.

## Release Notes

### Data reduction method

The FORS2 observations were reduced with a semi-automatic pipeline in the MIDAS package. Redshifts were measured with the IRAF package rvsao. Details of the data reduction and analysis are fully described in the papers "The Great Observatories Origins Deep Survey - VLT/FORS2 Spectroscopy in the GOODS-South Field", 2005, A&A, 434, 53 and "The Great Observatories Origins Deep Survey - VLT/FORS2 Spectroscopy in the GOODS-South Field - Part II", 2006, A&A, 454, 423.

### Flux calibration

The flux calibration should be considered as approximate since most observations were not taken in photometric conditions. Furthermore, the response curve is based on standard star observations from a different observing program and throughout the FORS2 survey an observing setup omitting the order sorting filter was used. Particularly redwards of approx. 9000 Å, the spectral response function is problematic.

### Known caveats in this release

The spectral previews show only a restricted wavelength range. For access to the full wavelength range we refer to the fits spectra.

A small number of the colour image previews do not cover the full 5"x5" FOV. This problem occurs when a target is located close to the edges of the image tiles which do not overlap.

Objects identified as stars by the stellar class parameter or the spectrum itself were assigned a fixed redshift of 0.000.

## Data format

The data files in this release come essentially in pairs: one is the 1-dimensional spectrum in fits format, the second one is the corresponding spectral preview (.png) showing the position of key absorption and emission lines if a redshift is available, along with the 2-dimensional spectrum. For each unique target we also provide a colour image cutout (.jpg; 5"x5", derived from ACS B, V, i z images) centered on the target. For the fits spectrum all relevant parameters are included in the FITS header which have been designed to be consistent with other VO compliant releases of ESO Advanced Data Products.

The following file naming convention has been adopted for all individual extracted spectra:

GOODS\_FORS2\_GDS\_xx\_bb\_v3.0.fits 1-d Fits file  
GOODS\_FORS2\_GDS\_xx\_bb\_v3.0.spec.png Spectrum preview  
GOODS\_FORS2\_GDS\_xx\_v3.0.img.jpg Colour image cutout

for the target coordinate <xx> as derived from the ACS 5-epoch stack (e.g., J033206.44-274728.8); <bb> indicates the mask ID of the observation (e.g., 961839). Here is an example of a full, valid name: GOODS\_FORS2\_GDS\_J033206.44-274728.8\_985831\_v3.0.fits  
For stacked spectra, which are combinations of observations from different masks we omit the mask ID:

GOODS\_FORS2\_GDS\_xx\_v3.0.fits 1-d Fits file  
GOODS\_FORS2\_GDS\_xx\_v3.0.spec.png Spectrum preview

The released catalogue, containing object-id, photometry and redshift information is available in FITS format:  
GOODS\_FORS2\_CAT.fits

## Data retrieval

Please request your copy of the data from the ESO Science Archive using the ESO Data Products Query Form:

[http://archive.eso.org/wdb/wdb/adp/phase3\\_main/form](http://archive.eso.org/wdb/wdb/adp/phase3_main/form)

or the catalogue via the query interface:

<http://www.eso.org/qi>

## Acknowledgements

When using data products provided in this release, we request acknowledgment of the ESO/GOODS project and referring to the publications Vanzella et al. 2005, A&A, 434, 53, "The Great Observatories Origins Deep Survey. VLT/FORS2 spectroscopy in the GOODS-South Field", Vanzella et al. 2006, A&A, 454, 423, "The Great Observatories Origins Deep Survey - VLT/FORS2 Spectroscopy in the GOODS-South Field - Part II", and Vanzella et al. 2008, A&A, 478, 83, "The Great Observatories Origins Deep Survey - VLT/FORS2 Spectroscopy in the GOODS-South Field: Part III". Please also use the following statement in your articles when using these data:

*Observations have been carried out using the Very Large Telescope at the ESO Paranal Observatory under Program ID(s): 170.A-0788, 074.A-0709, and 275.A-5060.*

## List of the 1-D spectra whit possible header keywords inconsistencies:

### - Missing PROV OBID info

GOODS\_FORS2\_GDS\_J033203.54-274506.3\_943544\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033204.06-274322.8\_943544\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033209.71-274248.1\_943544\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033214.52-275104.3\_953048\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033215.75-274817.2\_943544\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033215.75-274817.2\_953015\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033215.75-274817.2\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033216.02-274859.9\_953015\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033216.02-274859.9\_953048\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033217.29-275113.2\_953015\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033217.29-275113.2\_984829\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033217.48-275003.3\_953015\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033220.17-274047.8\_940129\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033220.86-275038.7\_943018\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033221.15-274106.7\_952942\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033222.03-274225.8\_940129\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033222.96-275529.3\_953132\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033224.39-274624.3\_995131\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033224.45-275038.0\_965910\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033225.13-274109.6\_940129\_v3.0.fits  
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GOODS\_FORS2\_GDS\_J033225.19-274735.3\_995131\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033225.35-274502.8\_995131\_v3.0.fits  
GOODS\_FORS2\_GDS\_J033226.03-274856.0\_914250\_v3.0.fits  
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GOODS\_FORS2\_GDS\_J033228.84-274132.7\_981451\_v3.0.fits  
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GOODS\_FORS2\_GDS\_J033229.42-274537.8\_943544\_v3.0.fits  
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**- EXPTIME not consistent with PROVi and/or NCOMBINE:**

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