



Publication Year	2015
Acceptance in OA	2020-04-24T16:59:57Z
Title	VizieR Online Data Catalog: ECDFS sources optical/IR counterparts (Bonzini+, 2013)
Authors	Bonzini, M., Padovani, P., Mainieri, V., Kellermann, K. I., Miller, N., Rosati, P., TOZZI, Paolo, Vattakunnel, S.
Handle	http://hdl.handle.net/20.500.12386/24238

The sub-mJy radio sky in the Extended Chandra Deep Field-South: source population. (2013)

[Go to the original article \(10.1093/mnras/stt1879\)](https://doi.org/10.1093/mnras/stt1879)

Keywords : catalogues - galaxies: active - galaxies: star formation

Abstract: The sub-mJy radio population is a mixture of active systems, that is star-forming galaxies (SFGs) and active galactic nuclei (AGNs). We study a sample of 883 radio sources detected at 1.4GHz in a deep Very Large Array survey of the Extended Chandra Deep Field-South that reaches a best rms sensitivity of $6\mu\text{Jy}$. We have used a simple scheme to disentangle SFGs, radio-quiet (RQ), and radio-loud (RL) AGNs based on the combination of radio data with Chandra X-ray data and mid-infrared observations from Spitzer. We find that at flux densities between about 30 and $100\mu\text{Jy}$, the radio population is dominated by SFGs ($\sim 60\%$) and that RQ AGNs become increasingly important over RL ...[\(more\)](#)

We consider a sample of 883 radio sources detected at 1.4GHz in a deep Very Large Array (VLA) survey of the Extended Chandra Deep Field-South (E-CDFS) that reaches a best rms sensitivity of $6\mu\text{Jy}$. We used deep Spitzer InfraRed Array Camera (IRAC) and Multiband Imaging Photometer for Spitzer (MIPS) data. The IRAC data were obtained as part of the Spitzer IRAC/MUSYC Public Legacy Survey in the Extended CDF-South (SIMPLE) survey (Damen et al., [2011ApJ...727....1D](#) [2011ApJ...727....1D](#), Cat. [J/ApJ/727/1](#)). It covers an area of about 1600 arcmin² centred on the E-CDFS. The typical 5σ flux density limits are 1.1, 1.3, 6.3 and $7.6\mu\text{Jy}$ at 3.6, 4.5, 5.8 and 8.0um, respectively. We also use MIPS 24um data from the Far-Infrared Deep Extragalactic Legacy (FIDEL) survey (Dickinson & FIDEL Team, [2007AAS...211.5216D](#) [2007AAS...211.5216D](#)). The E-CDFS has been mapped in the X-ray band by Chandra. A total of 129 radio sources have a counterpart in the 4 Ms observations of the CDFS presented in Xue et al. ([2011ApJS..195...10X](#) [2011ApJS..195...10X](#), Cat. [J/ApJS/195/10](#)) and another 99 in the main E-CDFS catalogue by Lehmer et al. ([2005ApJS..161...21L](#) [2005ApJS..161...21L](#), Cat. [J/ApJS/161/21](#)) obtained with shallower (250ks) observations in each of four pointings. The list of the X-ray counterparts of the radio sources is given in Bonzini et al. ([2012ApJS..203...15B](#) [2012ApJS..203...15B](#), Cat. [J/ApJS/203/15](#)).

- [J/ApJS/161/21](#) : Extended Chandra Deep Field-South survey (Lehmer+, 2005)
- [J/ApJS/195/10](#) : The CDF-S survey
- [J/ApJ/727/1](#) : IRAC/MUSYC SIMPLE survey (Damen+, 2011)
- [J/ApJS/203/15](#) : Counterparts to 1.4GHz sources in ECDF-S (Bonzini+, 2012)

Archives are available through FTP in standardized format described in the ReadMe.
VizieR tables are built from archives with additional transformations.

J/MNRAS/436/3759 ECDFS sources optical/IR counterparts (Bonzini+, 2013)

The following files can be converted to FITS (extension .fit or fit.gz)

table1.dat

Query from: <http://vizier.u-strasbg.fr/viz-bin/VizieR?-source=J/MNRAS/436/3759>

Go to [ftp](#) - [web page](#) - Download all tables in [tar.gz](#)

ReadMe	05-Oct-2015 17:48	-r--r-- r--	7.0 K	
table1.dat	05-Oct-2015 16:08	-r--r-- r--	76K	- text - txt.gz - fits - fits.gz - html