



HAL
open science

Galaxy clusters in the CFHTLS. First matched filter candidate catalogue of the Deep fields

L.F. Olsen, C. Benoist, A. Cappi, S. Maurogordato, A. Mazure, E. Slezak, C. Adami, C. Ferrari, F. Martel

► **To cite this version:**

L.F. Olsen, C. Benoist, A. Cappi, S. Maurogordato, A. Mazure, et al.. Galaxy clusters in the CFHTLS. First matched filter candidate catalogue of the Deep fields. *Astronomy and Astrophysics - A&A*, 2008, 478, pp.93-94. 10.1051/0004-6361:20066088e . hal-00382996

HAL Id: hal-00382996

<https://hal.science/hal-00382996v1>

Submitted on 28 Apr 2021

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

Erratum

Galaxy clusters in the CFHTLS

First matched filter candidate catalogue of the Deep fields

L. F. Olsen^{1,2,*}, C. Benoist², A. Cappi^{2,3}, S. Maurogordato², A. Mazure⁴, E. Slezak², C. Adami⁴,
 C. Ferrari⁵, and F. Martel²

¹ Dark Cosmology Centre, Niels Bohr Institute, University of Copenhagen, Juliane Maries Vej 30, 2100 Copenhagen, Denmark
 e-mail: lisbeth@dark-cosmology.dk

² Observatoire de la Côte d'Azur, Laboratoire Cassiopée, BP 4229, 06304 Nice Cedex 4, France

³ INAF - Osservatorio Astronomico di Bologna, Via Ranzani 1, 40127 Bologna, Italy

⁴ Laboratoire d'Astrophysique de Marseille, UMR 6110 CNRS-Université de Provence, BP 8, 13376 Marseille Cedex 12, France

⁵ Institut für Astro- und Teilchen Physik, Universität Innsbruck, Technikerstraße 25, 6020 Innsbruck, Austria

A&A 461, 81-93 (2007), DOI:10.1051/0004-6361:20066088

Key words. methods: data analysis – surveys – galaxies: clusters: general – cosmology: large-scale structure of Universe –
 errata, addenda

Table 1. Corrected table.

Parameter	Value
Filter	
Core radius, r_c	$0.1 h_{75}^{-1}$ Mpc
Cut off radius, r_{co}	$1.0 h_{75}^{-1}$ Mpc

After publication of Olsen et al. (2007) we noted that there was a mistake in Table 1 where the first two lines are corrected in Table 1 of the present erratum to reflect the actual parameter settings for building the catalogue.

We also noted that in our peak detection we used a wrong detection threshold, too high by a factor of 10, for the highest redshift bin. We have, therefore, reextracted cluster catalogues and give here the list of missing candidates in Table 3. All the missed candidates are at $z = 1.2$. For the already published candidates the parameters are not changed by this correction.

With these additional candidates the total number of cluster candidates is increased to 169 corresponding to a density of 54.4 ± 7.0 per square degree. With these new settings the number of false detections is increased to 16.9 ± 5.4 per square degree. The updated Fig. 11 gives the redshift and richness distributions of the real and false detections.

We also provide an updated version of the recovery rate in Fig. 5. It can be seen that only minor changes occur at the highest redshifts.

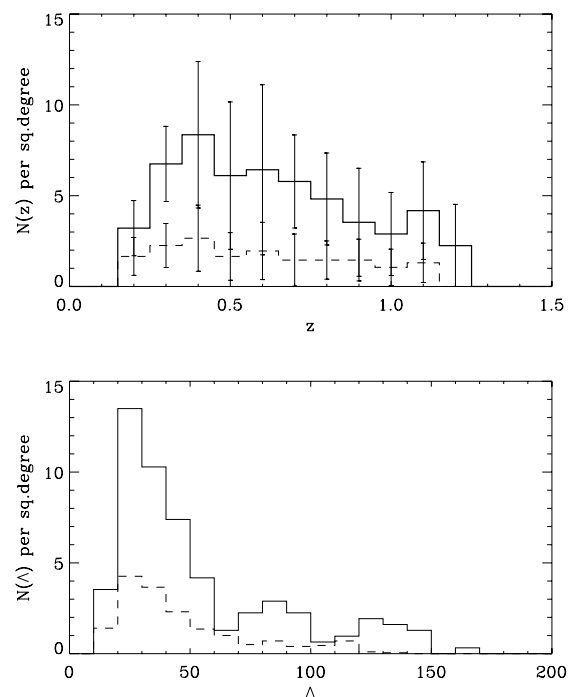
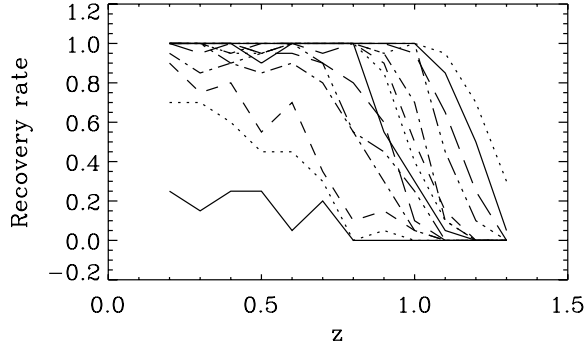


Fig. 11. Redshift (*top*) and richness (*lower*) distributions (solid lines) for all the candidate clusters. The distributions of false detections (dashed lines) are estimated using the correlated backgrounds. For the redshift distribution the error bars denote the scatter between the fields. Corresponding to Fig. 11 in the original paper.

* Now L. F. Grove.

Table 3. Cluster candidates missing in the original publication.

Name	α (J2000)	δ (J2000)	z_{MF}	Λ_{cl}	S/N	# Bins	Frac. of lost area	Grade
CFHTLS-CL-J022427-040928	02:24:27.0	-04:09:28.1	1.2	135.3	3.74	2	0.00	C
CFHTLS-CL-J022501-041329	02:25:01.0	-04:13:29.4	1.2	149.7	4.14	2	0.00	C
CFHTLS-CL-J100150+020950	10:01:50.7	+02:09:50.7	1.2	145.9	3.69	2	0.00	C
CFHTLS-CL-J221418-174507	22:14:18.9	-17:45:07.8	1.2	143.6	4.10	2	0.00	C
CFHTLS-CL-J221502-175611	22:15:02.8	-17:56:11.7	1.2	126.3	3.62	2	0.00	D
CFHTLS-CL-J221558-173757	22:15:58.9	-17:37:57.9	1.2	134.8	3.86	2	0.00	A
CFHTLS-CL-J221700-180957	22:17:00.6	-18:09:57.2	1.2	129.2	3.71	2	0.00	C

**Fig. 5.** The detection efficiency for the correlated background $\sigma_{det} = 3.5\sigma$, area $\sim \pi(0.5r_c)^2$. The lines correspond to $\Lambda_{cl} = 10$ –300 from left to right.