

SN-MCT Orbits Used and SN Yield					
Program	HST Cycle	Field	Orbits Processed	Orbits Remaining	SNe Detected
CANDELS 5 fields 751 orbits	18-19	GOODS-S	230	0	23
	18	UDS	88	0	10
	18	EGS-a	50	0	8
	19	COSMOS	88	0	12
	19-20	GOODS-N	104	151	12
	20	EGS-b	0	40	-
CLASH 25 clusters 474 orbits	18	Clusters 1-10	181	0	16
	19	Clusters 10-20	198	0	14
	20	Clusters 20-25	0	95	-
TOTAL :			939	286	95

SN-MCT Data Products				
Sample ID	Title	Description	First Release	Final Release
A	Gold Type Ia SN Sample	Definite Type Ia SNe with good light curves and redshifts (N~8).	2013	2014
B	Full SN Sample	Both CCSN and SNIa. Some with sparse light curves or found on the decline. (N~100)	2013	2014
C	All Transients Catalog	Includes likely AGN, moving objects, variable stars, image artifacts, etc.	...	2014
D	Host Galaxy SED Fitting	SEDs and template fits for all host galaxies of SNe in samples A and B, with stellar mass, age, metallicity, etc.	2013	2014
E	Data Processing Pipeline	Python code with data processing pipeline and analysis tools.	...	2014

SN-MCT Publications

Science Goal	Paper Titles	Author (Institution)	Pub Date
Detection, classification, characterization	"A Type Ia Supernova at Redshift 1.55 in HST Infrared Observations from CANDELS"	S. Rodney (JHU)	2012
	"Discovery of the Most Distant Type Ia Supernova at Redshift 1.91"	D. Jones (JHU)	2013
	"Two Core Collapse Supernova at $z > 2$ from CANDELS"	T. Dahlen (STScI)	2013
	"Constraining Cluster Dark Matter Profiles with Strongly Lensed SNe from CLASH"	C. McCully (Rutgers)	2013
	"Discovery, Classification and IR Light Curves for N SNE in CANDELS+CLASH"	D. Jones (JHU)	2013
	"The Complete CANDELS+CLASH Transient Catalog"	O. Graur (Tel Aviv+AMNH)	2014
	"Classification and Redshift from Medium-band IR Observations of Two SNe at $z > 1.5$ "	S. Rodney (JHU)	2013
High-z SN Environments	"The Dwarf Starburst Host Galaxy of a Type Ia SN at Redshift 1.55"	T. Frederiksen (U.Copen.)	2012
	"Two Supernova Host Galaxies at Redshifts $z > 1.5$ "	T. Frederiksen (U.Copen.)	2012
	"Environmental Effects on the Properties of High Redshift Type Ia Supernovae"	B. Hayden (Notre Dame)	2013
	"Properties of High Redshift SNIa Host Galaxies from HST and VLT+Xshooter"	T. Frederiksen (U.Copen.)	2013
	"Probing SN Environments with Sub-galactic SED Fitting of Their Host Galaxies"	B. Mobasher (UC Riverside)	2014
SN rates and the Delay Time Distribution	"The Volumetric Type Ia Supernova Rate From the First Half of CANDELS"	S. Rodney (JHU)	2013
	"The Volumetric Type Ia Supernova Rate From the First Half of CLASH"	O. Graur (Tel Aviv+AMNH)	2013
	"New Constraints on the SNIa Delay Time Distribution from CANDELS + CLASH"	L. Strolger (WKU)	2013
	"The Core Collapse SN Rate to $z \sim 1$ from CANDELS + CLASH"	T. Dahlen (STScI)	2013
	"The SNIa Delay Time Distribution in CANDELS+CLASH from Host Galaxy Ages"	S. Rodney (JHU)	2013
	"The Volumetric SNIa Rate from the Full CANDELS+CLASH Survey"	O. Graur (Tel Aviv+AMNH)	2013
	"The SNIa Delay Time Distribution from the Full CANDELS+CLASH Survey"	L. Strolger (WKU)	2014
SN Cosmology & Systematics	"Improving Dark Energy Constraints with High-z SNIa from CANDELS+CLASH"	V. Salzano (UPV/EHU)	2013
	"Examining SNIa Evolution Without Dark Energy Interference at $z > 1.5$ "	A. Riess (JHU + STScI)	2013
	"The Dark Energy Equation of State with SNIa from CANDELS+CLASH"	D. Scolnic (JHU)	2014
	"Testing Exotic Cosmologies with SNIa from CANDELS+CLASH"	D. Scolnic (JHU)	2014

SN-MCT Timeline : Cycle 20+

Date	Survey Operations	Completion Targets	Data Product Release	Primary Publications
2012.11 - 12	GOODS-N epoch 07 Start CLASH cluster 21 GOODS-N epoch 08 Start CLASH cluster 22	Visual search of reprocessed data		Jones "SNIa at z=1.91" Frederiksen "SNIa Host at z=1.91"
2013.01 - 02	GOODS-N epoch 09 Start CLASH cluster 23 GOODS-N epoch 10		B1: 2-yr Full SN Catalogs	Rodney "CANDELS Rates 1" Graur "CLASH Rates 1"
2013.03 - 04	Start CLASH cluster 24 GOODS-N epoch 11 EGS-b epoch 01 GOODS-N epoch 12	Automated search of reprocessed data	A1: Gold SNIa light curves D1: SNIa Host Gal. SED Fits	Jones "SN Light Curves and Classification" Hayden "Host Galaxy and SN Properties" Frederiksen "SN Hosts with HST+VLT"
2013.05 - 06	EGS-b epoch 02 Start CLASH cluster 25 GOODS-N epoch 13			
2013.07 - 08	GOODS-N epoch 14			
2013.09 - 10	All survey data in Cycle 20 Ends			
2013.11 - 12		HST Follow-up Completed		
2014.01 - 02		Final SN Classifications		
2014.03 - 04		Final Light Curve Fitting		Rodney "SNIa Rates from Host SED Fits" Mobasher "SNIa Environments"
2014.05 - 06		Final Host Galaxy Redshifts Collected	C2: SN Host Galaxy SED Fits B2: Full SN Sample	Graur "SNIa Rates 2" Strolger "DTD 2" Dahlen "CCSN Rates"
2014.07 - 08			D2: All Transients Catalog E2: Data Processing Pipeline	Graur "All Transients Catalog" Rodney "Data Processing pipeline"
2014.09 - 10			A2: Gold SNIa Sample	Scolnic "High-z SN Cosmology" Riess "High-z SN Evolution"