

Catalog of LLO ETM Inspection Findings from Mid-O3 Vent							v1
https://dcc.ligo.org/T1900696							
Optic	Point Name	Size [um]	Category	Location	Point Notes	Pictures	Image comments
ETMY	A	132 x 119 - 558 (debris)	burnt absorber	4	Very round black hole. Black dots all round like debris have been ejected from the center. Cracks on opposite sides of the hole. Green light half comes through.	POINT A IMAGE 004.jpg	Green light from the back
						POINT A IMAGE 005.jpg	
						POINT A IMAGE 006.jpg	
						POINT A IMAGE 007.jpg	
					small bit of first contact left after cleaning	POINT A IMAGE 101.jpg	after first contact cleaning. A small part of first contact left.
					small bit of first contact left after cleaning	POINT A IMAGE 102.jpg	
					small bit of first contact left after cleaning	POINT A IMAGE 103.jpg	
					small bit of first contact left after cleaning	POINT A IMAGE 104.jpg	
					small bit of first contact left after cleaning	POINT A IMAGE 105.jpg	
					small bit of first contact left after cleaning	POINT A IMAGE 106.jpg	after first contact. Relief image.
					small bit of first contact left after cleaning	POINT A IMAGE 107.jpg	
					small bit of first contact left after cleaning	POINT A IMAGE 108.jpg	field debris measurement.
ETMY	B	31 x 18	debris			POINT B IMAGE 001.jpg	
						Y POINT B IMAGE 001_measured.jpg	
ETMY	C	419	DonutPlaceholder			POINT C IMAGE 002.jpg	
						POINT C IMAGE 002_meas.jpg	
						POINT C IMAGE 003.jpg	
ETMY	D	10	donut		Coating seems intact in the middle	POINT D IMAGE 008.jpg	
						POINT D IMAGE 009.jpg	
						Y POINT D IMAGE 009_meas.jpg	
ETMY	E	386	DonutPlaceholder			POINT E IMAGE 010.jpg	
						POINT E IMAGE 010_meas.jpg	
						POINT E IMAGE 011.jpg	
ETMY	F	390	DonutPlaceholder			POINT F IMAGE 012.jpg	
						POINT F IMAGE 012_meas.jpg	
						POINT F IMAGE 013.jpg	
ETMY	G	161 x 117	debris		mosquito like with dragging lines (longer than 1.8 mm)	POINT G IMAGE 014.jpg	
						POINT G IMAGE 015.jpg	
ETMY	H	> 2.4 mm x 3 um large	line of drops		line longer than 2.4 mm (screen limited)	POINT H IMAGE 016.jpg	
						Y POINT H IMAGE 016_meas.jpg	
						POINT H IMAGE 017.jpg	
						Y POINT H IMAGE 017_meas.jpg	
						POINT H IMAGE 018.jpg	
						POINT H IMAGE 019.jpg	
ETMY	I1	11 x 12	?			POINT I IMAGE 020.jpg	
						Y POINT I IMAGE 020.jpg	
						POINT I1 IMAGE 021.jpg	
ETMY	I2	198	line		semi-transparent	POINT I2 IMAGE 022.jpg	
						POINT I2 IMAGE 023.jpg	

						POINT I2 IMAGE 024.jpg	
						Y POINT I2 IMAGE 024_meas.jpg	

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ETMX	A	65	debris			POINT A IMAGE 004.jpg	Accidentally wrote over the point with a pen, hard to be certain of feature
ETMX	B	72	debris			POINT B IMAGE 220.jpg	Accidentally wrote over the point with a pen, hard to be certain of feature
ETMX	C1	14 x 14	coating void				
ETMX	C2	30	debris				
ETMX	D	128 x 118	burnt absorber	-54, -27	crack extends all around, splash debris mostly in the direction opposing gravity		
ETMX	E	34 x 24	coating void		edges are meandering		
ETMX	F	25	unknown		color shows in the central region		
ETMX	G	115 x 103	burnt absorber	11, 12	two cracks at lower right position 5 o clock, only extend to 8 o clock and 2 o clock		
ETMX	H	16	debris				
ETMX	I1	9	debris				
ETMX	I2	11	debris				
ETMX	J	40 x 24	coating void		larger void, no apparent splashes. edges are meandering.		
ETMX	K	11					
ETMX	L	20 x 8	coating void		high aspect ratio horizontal		
ETMX	M	15 x 3	coating void		high aspect ratio, horizontal		no image of green
ETMX	N	380	donutPlaceholder				
ETMX	O	17 x 9	coating void		high aspect ratio, horizontal	Y POINT O IMAGE 226	green illumination
ETMX	P	68 x 58	burnt absorber	27, 4	no cracks, 1 splash point only; central region has no black zones under illumination		

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Optic	Point Name	Size [μm]	Category	Location (X mm, Y mm) (+X right and +Y up on S1 face) (origin at optic center)	Max Splash Distance [μm]	Location (x,y) from optic center [mm]	Point Notes	Pictures	Imaging Comments
ETMX	D	128 x 118			311	(-54, -27)			
ETMX	G	115 x 103			268	(11, 12)			
ETMX	P	68 x 58			112	(27, 4)			
ETMY	A	132 x 119	burn		415	(not measured)	Very round black hole. Black dots all round like debris have been ejected from the center. Cracks on opposite sides of the hole. Green light half comes through.	POINT A IMAGE 004.jpg	Green light from the back