



Archaeometry Laboratory

University of Missouri

List of obsidian sources in the collection of the Archaeometry Laboratory at the University of Missouri Research Reactor (MURR), Columbia, Missouri, USA

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by

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To request any samples via loan, contact the Archaeometry Laboratory at archaeometrylab@missouri.edu.

Obsidian Sources in Alaska

BT1-AK [4]	MLZ1023	Batza Tena-1, Alaska MLZ1032	MLZ1036	RRO001	
BT2-AK		Batza Tena-2, Alaska			
BT3-AK		Batza Tena-3, Alaska			
GL-AK [1]	GLAK01	Glass Creek, Alaska			
WR-AK [2]	XMC014	Wrangell Mtns, Alaska XMC021			
PSC-AK [5]	RAS001	Port Santa Cruz, Alaska RAS002	RAS003	RAS004	RAS005

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Canada

ANAHIM		Anahim Peak, BC				
[6]	RRO010	RRO011	RRO012	RRO013	RRO014	RRO015
GARIBALDI		Garibaldi, BC				
[1]	RRO002					
KINGCOME		Kingcome, BC				
[2]	RRO005	RRO008				
RMBC		Rainbow Mtns, BC				
[8]	RMBC01	RMBC02	RMBC03	RMBC04	RMBC05	RMBC06
	RMBC07	RMBC08				
HMY		Hoodoo Mtns, Yukon				
[1]	HMY001					

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Obsidian from Arizona

BC-AZ	Burro Creek, AZ					
[15]	BCAZ101	BCAZ102	BCAZ103	BCAZ104	BCAZ105	BZAZ106
	BCAZ107	BCAZ108	BCAZ109	BCAZ110	BCAZ111	BCAZ112
	BCAZ113	BCAZ114	BCAZ115			
CC-AZ	Cow Canyon, Greenlee Co., AZ					
[15]	CCAZ10	CCAZ11	CCAZ12	CCAZ13	CCAZ14	CCAZ15
	CCAZ16	CCAZ17	CCAZ18	CCAZ19	CCAZ20	CCAZ21
	CCAZ22	CCAZ23	CCAZ24			
GM-AZ	Government Mountain, Coconino Co., AZ					
[20]	GMAZ101	GMAZ102	GMAZ103	GMAZ104	GMAZ105	GMAZ106
	GMAZ107	GMAZ108	GMAZ109	GMAZ110	GMAZ111	GMAZ112
	GMAZ113	GMAZ114	GMAZ115	GMAZ116	GMAZ117	GMAZ118
	GMAZ119	GMAZ120				
PW-AZ	Presley Wash, AZ					
[10]	PWAZ101	PWAZ102	PWAZ103	PWAZ104	PWAZ105	PWAZ106
	PWAZ107	PWAZ108	PWAZ109	PWAZ110		
RM-AZ	Round Mtn (Partridge Creek), Coconino Co., AZ					
[20]	RMAZ101	RMAZ102	RMAZ103	RMAZ104	RMAZ105	RMAZ106
	RMAZ107	RMAZ108	RMAZ109	RMAZ110	RMAZ111	RMAZ112
	RMAZ113	RMAZ114	RMAZ115	RMAZ116	RMAZ117	RMAZ118
	RMAZ119	RMAZ120				
RS-AZ	RS Hill, Coconino Co., AZ					
[20]	RSAZ101	RSAZ102	RSAZ103	RSAZ104	RSAZ105	RSAZ106
	RSAZ107	RSAZ108	RSAZ109	RSAZ110	RSAZ111	RSAZ112
	RSAZ113	RSAZ114	RSAZ115	RSAZ116	RSAZ117	RSAZ118
	RSAZ119	RSAZ120				
SM1-AZ	Sauceda Mtn-1, Maricopa Co., AZ					
[5]	SMAZ01	SMAZ04	SMAZ05	SMAZ07	SMAZ08	
SM2-AZ	Sauceda Mtn-2, Maricopa Co., AZ					
[3]	SMAZ02	SMAZ03	SMAZ06			
SV-AZ	Safford Valley, AZ					
[10]	SVAZ01	SVAZ02	SVAZ03	SVAZ04	SVAZ05	SVAZ06
	SVAZ07	SVAZ08	SVAZ09	SVAZ10		
SU-AZ	Superior (Picketpost Mtn), Pinal Co., AZ					
[13]	SUAZ09	SUAZ10	SUAZ11	SUAZ12	SUAZ13	SUAZ14
	SUAZ15	SUAZ16	SUAZ17	SUAZ18	SUAZ19	SUAZ20
	SUAZ21					
TB-AZ	Topaz Basin, Arizona					

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Obsidian from Arizona

[9]	TBAZ01	TBAZ02	TBAZ03	TBAZ04	TBAZ05	TBAZ06
	TBAZ07	TBAZ08	TBAZ09			
VU-AZ		Vulture, Maricopa Co., AZ				
[10]	VUAZ101	VUAZ102	VUAZ103	VUAZ104	VUAZ105	VUAZ106
	VUAZ107	VUAZ108	VUAZ109	VUAZ110		
WT-AZ		Wallace Tank, AZ				
[10]	WTAZ01	WTAZ02	WTAZ03	WTAZ04	WTAZ05	WTAZ06
	WTAZ07	WTAZ08	WTAZ09	WTAZ10		

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Obsidian Sources in California

AN-CA	Annadel, Sonoma Co., CA					
[11]	ANCA01	ANCA02	ANCA03	ANCA04	ANCA05	ANCA06
	ANCA07	ANCA08	ANCA09	ANCA10	ANCA11	
BLM-CA	Blue Mountain, Modoc Co., CA					
[9]	BLMCA02	BLMCA03	BLMCA04	BLMCA05	BLMCA10	BLMCA12
	BLMCA17	BLMCA18	BLMCA19			
BH-CA	Bodie Hills, Mono Co., CA					
[10]	BHCA01	BHCA02	BHCA03	BHCA04	BHCA05	BHCA06
	BHCA07	BHCA08	BHCA09	BHCA10		
BL-CA	Borax Lake, Lake Co., CA					
[10]	BLCA01	BLCA02	BLCA03	BLCA04	BLCA05	BLCA06
	BLCA07	BLCA08	BLCA09	BLCA10		
BKM-CA	Buck Mtn, Lassen Co., CA					
[6]	BKMCA02	BKMCA03	BKMCA08	BKMCA09	BKMCA12	BKMCA18
CF-CA	Callahan Flow (Medicine Lake Highlands), Siskiyou Co., CA					
[6]	CLHCA02	CLHCA03	CLHCA06	CLHCA15	CLHCA18	CLHCA20
CD-CA	Casa Diablo, CA (three groups)					
[9]	CD1CA01	CD1CA02	CD1CA03	CD1CA04		
	CD2CA01	CD2CA02	CD2CA03	CD2CA04	CD2CA05	
CGB-CA	Cougar Butte, Siskiyou Co., CA					
[4]	CGBCA06	CGBCA07	CGBCA09	CGBCA20		
CHL-CA	Cowhead Lake, Modoc Co., CA					
[8]	CHLCA01	CHLCA02	CHLCA03	CHLCA04	CHLCA05	CHLCA06
	CHLCA07	CHLCA08				
DC-CA	Davis Creek, Lassen Co., CA					
[6]	DCCA01	DCCA02	DCCA03	DCCA04	DCCA06	DCCA07
YWJ-CA	Yellowjacket, CA					
[3]	YWJCA01	YWJCA02	YWJCA17			
GMG-CA	Glass Mountain Group (Medicine Lake Highlands), Siskiyou Co., CA					
[25]	(Glass Mtn-North, Glass Mtn-South, Little Glass Mtn, Grouse Hill)					
	GMNCA01	GMNCA02	GMNCA03	GMNCA05	GMNCA06	GMNCA07
	GMNCA08	GMNCA15				
	GMSCA03	GMSCA05	GMSCA07	GMSCA08	GMSCA11	
	LGMCA02	LGMCA03	LGMCA04	LGMCA05	LGMCA09	
	GRHCA01	GRHCA05	GRHCA07	GRHCA08	GRHCA09	GRHCA13
	GRHCA15					
GG-CA	Grasshopper Group, Siskiyou Co., CA					
[15]	(Grasshopper Flat, Red Switchback)					
	GHFCA02	GHFCA03	GHFCA05	GHFCA06	GHFCA07	GHFCA08
	GHFCA09	GHFCA16				
	RSBCA02	RSBCA04	RSBCA07	RSBCA09	RSBCA11	RSBCA16
	RSBCA17					

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Obsidian Sources in California

FS-CA		Fish Springs, CA (two groups)				
[6]	FS001	FS002	FS003	FS004	FS005	FS006
INYO-CA		Inyo Crater, CA				
[8]	INCA01	INCA02	INCA03	INCA04	INCA05	INCA06
	INCA07	INCA08				
MONO-CA		Mono Craters, CA				
[18]	MACA01	MACA02	MACA03	MACA04	MACA05	MACA06
	MACA07	MACA08	MACA09	MACA10		
	PACA01	PACA02	PACA03	PACA04	PACA05	PACA06
	PACA07	PACA08				
MGM1-CA		Mono Glass Mtn-1, CA				
[10]	MCAA04	MCA05	MCAA06	MCAA07	MCAA08	MCAB14
	TACA01	TACA13	TACA14	TACA16		
MGM2-CA		Mono Glass Mtn-2, CA				
[]						
MGM3-CA		Mono Glass Mtn-3, CA				
[4]	MCAB05	MCAB06	MCAB08	TACA09		
KO-CA		Mt. Konocti, Lake Co., CA				
[10]	KOCA01	KOCA02	KOCA03	KOCA04	KOCA05	KOCA06
	KOCA07	KOCA08	KOCA09	KOCA10		
NGM-CA		Napa Glass Moutain, Napa Co., CA				
[29]		(Napa Valley, Crystal Summitt, Meg's Crown)				
	NGCA01	NGCA02	NGCA03	NGCA04	NGCA05	NGCA06
	NGCA07	NGCA08				
	CSCA01	CSCA02	CSCA03	CSCA04	CSCA05	CSCA06
	CSCA07	CSCA08	CSCA09	CSCA10		
	MGCA01	MGCA02	MGCA03	MGCA04	MGCA05	MGCA06
	MGCA07	MGCA08	MGCA09	MGCA10	MGCA11	
SWM-CA		South Warner Mtns, Lassen Co., CA				
[20]		(Alaska Canyon, Dodge Reservoir, Sworinger Basin)				
	AKC001	AKC002	AKC004	AKC005	AKC007	AKC008
	DR001	DR002	DR003	DR004	DR005	DR006
	SB001	SB002	SB003	SB004	SB005	SB006
	SB007	SB008				
SHO-CA		Shoshone, CA				
[7]	SHOCA01	SHOCA02	SHOCA03	SHOCA04	SHOCA05	SHOCA06
	SHOCA07					

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Obsidian Sources in California

BRM-CA		Bristol Mountains, CA				
[4]	BRMCA01	BRMCA02	BRMCA03	BRMCA05		
OB-CA		Obsidian Butte, CA				
[5]	OBCA01	OBCA02	OBCA03	OBCA07	OBCA21	
SV-CA		Saline Valley, CA (includes Steel Pass; possible four groups)				
[20]	SP001	SP002	SP003	SP004	SP005	SP006
	SP007	SP008				
	SVCA01	SVCA02	SVCA03	SVCA04	SVCA05	SVCA06
	SVCA07	SVCA08	SVCA09	SVCA10	SVCA11	SVCA12
TA-CA		Tablelands (Bishop), CA				
[5]	TACA03	TACA08	TACA10	TACA12	TACA15	
COSO-CA		Coso Volcanic Field, CA (six subsources)				
[78]	CV0103	CV0104	CV0105	CV0106		
	CV0201	CV0202	CV0203	CV0204	CV0205	CV0206
	CV0301	CV0302	CV0303	CV0304	CV0305	CV0306
	CV0401	CV0402	CV0403	CV0404	CV0405	CV0406
	CV0501	CV0502	CV0503	CV0504	CV0505	CV0506
	CV0601	CV0602	CV0603	CV0604	CV0605	CV0606
	CV0701	CV0702	CV0703	CV0704	CV0705	CV0706
	CV0801	CV0802	CV0803	CV0804	CV0805	CV0806
	CV0901	CV0902	CV0903	CV0904	CV0905	CV0906
	CV1001	CV1002	CV1003	CV1004	CV1005	CV1006
	CV1201	CV1202	CV1203	CV1204	CV1205	CV1206
	CV1301	CV1302	CV1303	CV1304	CV1305	CV1306
	CV1401	CV1402	CV1403	CV1404	CV1405	CV1406
	CV1501	CV1502	CV1503	CV1504	CV1505	CV1506

Samples yet to place in PIZZA Boxes

Lead Pipe Spring LPCA01-06

Pilot Knob PKCA01-06

Obsidian Sources in Idaho

AMF-ID	American Falls, Power Co., ID					
[15]	AMF001	AMF002	AMF003	AMF004	AMF005	AMF006
	AMF201	AMF202	AMF203	AMF204	AMF205	AMF206
	AMF207	AMF208	AMF209			
BG-ID	Bear Gulch/Big Table Mtn, Clark Co., ID					
[10]	BGID01	BGID02	BGID03	BTMID01	BTMID03	BTMID04
	BTMID07	BTMID08	BTMID09	BTMID10		
BSB1-ID	Big Southern Butte-1, Butte Co., ID					
[5]	BSB001	BSB002	BSB004	BSB005	BSB007	
BSB2,3-ID	Big Southern Butte-2,3, Butte Co., ID					
[11]	BSB101	BSB102	BSB103	BSB104	BSB105	BSB106
	BSB107	BSB108				
	BSB109	BSB110	BSB111			
BSB4-ID	Big Southern Butte-4, Butte Co., ID					
[16]	BSB201	BSB202	BSB203	BSB204	BSB205	BSB206
	BSB207	BSB208	BSB209	BSB210	BSB211	BSB212
	BSB213	BSB214	BSB215	BSB216		
CBS-ID	Coal Bank Springs, Twin Falls Co., ID					
[8]	CBSID01	CBSID02	CBSID03	CBSID04		
	CBS101	CBS102	CBS103	CBS104		
BB-ID	Browns Bench, Twin Falls Co., ID					
[49]	(Ibex Peak, Three Creek Landfill, Old Man Quarry, Young Man Quarry)					
	BBI102	BBI103	BBI104	BBI105	BBI106	BBI108
	BBI109	BBI110	BBI202	BBI203	BBI204	BBI205
	BBI301	BBI302	BBI303	BBI304	BBI305	BBI306
	BBI307	BBI401	BBI402	BBI403	BBI404	BBI405
	BBI406	BBI407	BBI501	BBI502	BBI503	BBI504
	BBI505	BBI506	BBI509	BBI510	BBI511	BBI512
	TCLID01	TCLID03	TCLID04	TCLID05	TCLID06	TCLID07
	TCLID08	TCLID09				
	IBID01	IBID02	IBID03	IBID04	IBID05	
SFC-ID	Salmon Falls Creek (House Creek), Twin Falls Co., ID					
[18]	SFC001	SFC002	SFC003	SFC004	SFC005	SFC006
	BBI101	BBI107	BBI111	BBI201	BBI507	BBI508
	HCID01	HCID02	HCID03	HCID04	HCID05	
	TCLID02					
CBM1-ID	Cannonball Mtn-1, Camas Co., ID					
[11]	CMID01	CMID02	CMID03	CMID04	CMID06	CMID07
	CBM002	CBM003	CBM004	CBM005	CBM006	
CBM2-ID	Cannonball Mtn-2, Camas Co., ID					
[2]	CMID05	CMID08				

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Obsidian Sources in Idaho

KC-ID		Kelly Canyon, Jefferson Co., ID				
[6]	KCID01	KCID02	KCID03	KCID04	KCID05	KCID06
MA-ID		Malad (Wright's Creek), Oneida Co., ID				
[6]	MAID01	MAID02	MAID03	MAID04	MAID05	MAID06
OWY-ID		Owyhee (Oreana South), Owyhee Co.				
[13]	OSID01	OSID02	OSID03	OSID04	OSID05	OSID06
	OSID07	OSID08	OSID09	OSID10		
	OWY003	OWY005	OWY006			
RP-ID		Reas Pass, Fremont Co., ID				
		(Argument Ridge, Lost Spring, Point Lookout, Yale Creek)				
[30]	ARID01	ARID02	ARID03	ARID04	ARID05	ARID06
	ARID07	ARID08	ARID09	LSID01	LSID02	LSID04
	PLID01	PLID02	PLID03	PLID04	PLID05	PLID06
	PLID07	PLID08	PLID09	PLID10	PLID11	
	RPID01	RPID02	RPID03	RPID04		
	YCID01	YCID02	YCID05			
TB-ID		Timber Butte, Gem Co., ID				
[8]	TMB001	TMB002	TMB003	TMB004	TMB005	TMB006
	TBID01	TBID02				

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Obsidian Sources in Nevada

HH-NV		Double H, Humboldt Co.				
[9]	HHNV01	HHNV02	HHNV03	HHNV04	HHNV05	HHNV06
	HHNV07	HHNV08	HHNV09			
MM-NV		Mt. Majuba, Pershing Co.				
[8]	MMNV01	MMNV02	MMNV03	MMNV04	MMNV05	MMNV06
	MMNV07	MMNV08				
SS-NV		Sutro Springs, Storey Co.				
[8]	SSNV01	SSNV02	SSNV03	SSNV04	SSNV05	SSNV06
	SSNV07	SSNV08				
FM-NV		Fox Mountain, Washoe Co.				
[9]	FMNV01	FMNV02	FMNV03	FMNV04	FMNV05	FMNV06
	FMNV07	FMNV08	FMNV09			
DPW-NV		Devil Peak West, Clark Co.				
[4]	DPWNV05	DPWNV06	DPWNV07	DPWNV08		
DPE-NV		Devil Peak East, Clark Co.				
[5]	DPENV01	DPENV02	DPENV04	DPENV06	DPENV07	
FMW-NV		Forty Mile Wash				
[8]	FMWNV01	FMWNV02	FMWNV03	FMWNV04	FMWNV05	FMWNV06
	FMWNV08	FMWNV09				
DHF-NV		Dead Horse Flat, Nye Co.				
[4]	DHFNV01	DHFNV02	DHFNV03	DHFNV04		
BBM-NV		Buckboard Mesa, Nye Co.				
[5]	BBMNV01	BBMNV02	BBMNV03	BBMNV04*	BBMNV05	
TW-NV		Tolicha Wash, Nye Co.				
[9]	TW001	TW002	TW003	TW004	TW005	TW006
	TW007	TW008	TW009			
BUF-NV		Buffalo Hills, Washoe Co.				
[3]	BUFNV01	BUFNV02	BUFNV03			
SPK-NV		Silverpeak, Esmeralda Co.				
[3]	SPK001	SPK002	SPK003			
HM-NV		Hart Mountain, Washoe Co.				
[8]	HMNV01	HMNV02	HMNV03	HMNV04	HMNV05	HMNV06
	NV5001	NV5005				
FLV-NV		Fish Lake Valley				

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Obsidian Sources in Nevada

[14]	FLV001	FLV002	FLV003	FLV004	FLV005	FLV006
	FLV007	FLV008	FLV009	FLV010	FLV011	FLV012
	FLV013	FLV014				
PGH-NV		Pine Grove Hills				
[8]	PGH009	PGH010	PGH011	PGH012	PGH013	PGH014
	PGH015	PGH016				
MH-NV		Mt. Hicks, Mineral Co.				
[19]	MHA001	MHA002	MHA003	MHA004	MHA005	MHA006
	MHA007	MHA008	MHB005	MHB006	MHB007	MHB008
	MHC001	MHC002	MHC003	MHNV09	MHNV10	MHNV11
	MHNV12					
TQ-NV		Truman-Queen, Mineral Co.				
[17]	BARA01	BARA02	BARA05	BARA09	BARA10	
	BARB01	BARB02	BARB05	BARB06	BARB09	BARC02
	BARC04	BARC06	BARD02	BARD03	BARD09	BARD10
CS-NV-1		Coyote Spring-1, Washoe Co.				
[4]	NV3003	NV3004	NV3009	NV3010		
CS-NV-2		Coyote Spring-2, Washoe Co.				
[6]	NV3001	NV3002	NV3005	NV3011	NV3012	NV3013
KS-NV-1		Kane Springs Wash-1, Lincoln Co.				
[10]	KSNV101	KSNV102	KSNV103	KSNV104	KSNV105	KSNV106
	KSNV107	KSNV108	KSNV109	KSNV110		
KS-NV-2		Kane Springs Wash-2, Lincoln Co.				
[10]	KSNV201	KSNV202	KSNV203	KSNV204	KSNV205	KSNV206
	KSNV207	KSNV208	KSNV209	KSNV210		
ML-NV		Massacre Lake/Guano Valley/Windmiller, Humboldt Co.				
[18]	NV4001	NV4002	NV4003	NV4004	NV4005	NV4006
	NV4007	NV4008	NV4009	NV4010	NV4011	NV4012
	WM001	WM002	WM003	WM004	WM005	WM006
VQUAD		Vya Quad				
[6]	VQ-1	VQ-2	VQ-3	VQ-4	VQ-5	VQ-6
CM-NV		Catnip Mountain				
[13]	NV2001	NV2002	NV2003	NV2004	NV2005	NV2006
	NV2007	NV2008	NV2009	NV2010	NV2011	NV2012
	NV2013					
VYA-1		Vya-1 (similar to Catnip)				
[9]	NV1001	NV1002	NV1003	NV1004	NV1005	NV1006
	NV1007	NV1008	NV1010			
VYA-3		Vya-3				
[1]	NV1009					

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Obsidian Sources in New Mexico

NAN-NM	No Agua Peaks-North, Colfax Co.					
[6]	NAN001	NAN002	NAN003	NAN004	NAN005	NAP004
NAW-NM	No Agua Peaks-North, Colfax Co.					
[7]	NAP001	NAP002	NAP003	NAP005	NAP006	NAP008
	NAP009					
JM-BS	Jemez - Bear Springs Peak, Santa Fe Co., NM					
[7]	JMBS01	JMBS02	JMBS03	JMBS04	JMBS05	JMBS06
	JMBS07					
JM-CM	Jemez - Cerro del Medio, Santa Fe Co., NM					
[23]	JMCM100	JMCM102	JMCM104	JMCM105	JMCM106	JMCM108
	JMCM109	JMCM110	JMCM111	JMCM112	JMCM113	JMCM115
	JMCM117	JMCM119	JMCM120	JMCM121	JMCM122	JMCM124
	JMCM125	JMCM127	JMCMw1	JMCMw2	JMCMw3	JMCMw4
	CDM001	CDM002	CDM003	CDM004	CDM005	CDM006
	CDM007	CDM008	CDM009			
JM-OR	Jemez - Obsidian Ridge/Rabbit Mtn, Santa Fe Co., NM					
[22]	JMRM101	RMRM102	JMRM103	JMRM104	JMRM105	JMRM106
	JMRM107	JMRM108	JMRM110	JMRM111	JMRM112	JMRM113
	JMRM114	JMRM116	JMRM118	JMRM120	JMRM121	JMRM122
	JMRM126	JMRM136	JMRM137	JMRM138		
JM-PC	Jemez - Paliza Canyon, Santa Fe Co., NM					
[4]	PCNM02	PCNM07	PCNM08	PCNM10		
JM-PV	Jemez - Polvadera Peak (El Rechuelos)					
[27]	JMPV17	JMPV18	JMPV19	JMPV20	JMPV21	
	JMPV101	JMPV102	JMPV103	JMPV104	JMPV105	JMPV106
	JMPV107	JMPV108	JMPV109	JMPV110	JMPV111	JMPV112
	JMPV113	JMPV114	JMPV115	JMPV116		
	JMPVw1	JMPVw2	JMPVw3	JMPVw4	JMPVw5	JMPVw6
GC-NM	Gwynn and Ewe Canyons, Catron Co., NM					
[22]	ECNM01	ECNM02	ECNM03	ECNM04	ECNM05	ECNM06
	ECNM07	ECNM08	ECNM09	ECNM10	ECNM21	ECNM22
	ECNM101	ECNM103	ECNM104	ECNM105	ECNM106	ECNM211
	ECNM212	ECNM213	ECNM214	ECNM215		
GR-NM	Grants Ridge (Mt. Taylor), Cibola Co., NM					
[20]	GRNM01	GRNM02	GRNM03	GRNM04	GRNM05	GRNM06
	GRNM07	GRNM08	GRNM21	GRNM22		
	GRNM201	GRNM202	GRNM203	GRNM204	GRNM205	GRNM206
	GRNM207	GRNM208	GRNM209	GRNM210		
HM-NM	Horace Mesa (Mt. Taylor), Cibola Co., NM					
[20]	HMNM01	HMNM02	HMNM03	HMNM04	HMNM05	HMNM06
	HMNM07	HMNM08	HMNM22			
	HMNM201	HMNM202	HMNM203	HMNM204	HMNM205	HMNM206
	HMNM207	HMNM208	HMNM209	HMNM210		

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Obsidian Sources in New Mexico

RH-NM

Red Hill, Catron Co., NM

[36]	RHNM01	RHNM02	RHNM03	RHNM04	RHNM05	RHNM06
	RHNM07	RHNM08	RHNM09	RHNM10*	RHNM11	RHNM12
	RHNM13	RHNM14	RHNM15	RHNM16	RHNM17	RHNM18
	RHNM19	RHNM20	RHNM21	RHNM22	RHNM23	RHNM24
	RHNM25	RHNM26	RHNM201	RHNM202	RHNM203	RHNM204
	RHNM211	RHNM212	RHNM213	RHNM214	RHNM221	RHNM222

AWNM

Antelope Wells, Hidalgo Co., NM

[4]	AWNM01	AWNM02	AWNM03	AWNM06
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MDT-NM

McDaniel Tank (Antelope Spring), Socorro Co., NM

[16]	ASNM100	ASNM101	ASNM102	ASNM103	ASNM104	ASNM105
	ASNM107	ASNM108	ASNM109	ASNM110	ASNM111	ASNM112
	ASNM113	ASNM116	ASNM118	ASNM119		

MC1-NM

Mule Creek-1 (North Sawmill Creek), Grant Co., NM

[23]	MCNM106	MCNM107	MCNM127	MCNM171	MCNM172	MCNM173
	MCNM174	MCNM175	MCNM176	MCNM177	MCNM178	MCNM179
	MCNM180	MCNM192	MCNM193	MCNM194	MCNM195	MCNM196
	MCNM197	MCNM198	MCNM199	MCNM200	MCNM201	

MC2-NM

Mule Creek-2 (Antelope Creek), Grant Co., NM

[26]	MCNM100	MCNM102	MCNM104	MCNM105	MCNM117	MCNM118
	MCNM124	MCNM125	MCNM126	MCNM128	MCNM131	MCNM132
	MCNM134	MCNM135	MCNM136	MCNM137	MCNM138	MCNM141
	MCNM142	MCNM143	MCNM310	MCNM311	MCNM316	MCNM317
	MCNM318	MCNM319				

MC3-NM

Mule Creek-3 (Mule Mtns), Grant Co., NM

[14]	MCNM202	MCNM203	MCNM204	MCNM205	MCNM206	MCNM207
	MCNM208	MCNM209	MCNM210	MCNM221	MCNM222	MCNM223
	MCNM224	MCNM225				

NM-NM

Nutt Mtn

[17]	NMNM002	NMNM003	NMNM005	NMNM006	NMNM007	NMNM008
	NMNM009	NMNM024	NMNM025	NMNM027	NMNM029	NMNM041
	NMNM042	NMNM045	NMNM071	NMNM072	NMNM073	

FM1-NM

Florida Mtn#1

[9]	FMNM005	FMNM008	FMNM009	FMNM031	FMNM032	FMNM035
	FMNM040	FMNM042	FMNM043			

FM2-NM

Florida Mtn #2

[6]	FMNM001	FMNM002	FMNM004	FMNM019	FMNM028	FMNM030
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* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Oregon

BGS-OR		Massacre Lake / Big Spring (Guano Valley)				
[10]	BGS003	BGS004	BGS005	BGS006	BGS007	BGS008
	BGS009	BGS010	BGS011	BGS012		
BRC-OR		Brooks Canyon				
[12]	BRC001	BRC002	BRC003	BRC004	BRC005	BRC006
	BRC007	BRC008	BRC009	BRC010	BRC011	BRC012
BRR-OR		Burns Rimrock				
[4]	BRR002	BRR004	BRR005	BRR006		
BSA1-OR		Buck Springs Area-1				
[14]	BSOR01	BSOR05	BSOR06			
	HCB002	HCB004	HCB006	HCB007	HCB009	HCB013
	HCB014	HCB015				
BSA2-OR		Buck Springs Area-2				
[3]	BSOR02	BSOR03	BSOR04			
BSK-OR		Big Stick				
[2]	BSKOR01	BSKOR02				
BUB-OR		Burns Butte				
[12]	BUB001	BUB002	BUB003	BUB004	BUB005	BUB006
	BUB007	BUB008	BUB009	BUB010	BUB011	BUB012
CBU-OR		Coglan Butte				
[6]	CBU001	CBU002	CBU003	CBU004	CBU005	CBU006
CF-OR		Carver Flow				
[5]	CFOR01	CFOR02	CFOR03	CFOR04	CFOR05	
CGM-OR		Cougar Mountain				
[12]	CGM001	CGM002	CGM004	CGM005	CGM008	CGM010
	CGM012	CGM013	CGM014	CGM015	CGM016	CGM017
CHY-OR		Chickahominy				
[12]	CHY001	CHY002	CHY003	CHY004	CHY005	CHY006
	CHY007	CHY008	CHY009	CHY010	CHY011	CHY012
CP-OR		Cold Point				
[2]	CPOR01	CPOR06				
DC-OR		Deer Creek				
[6]	DC001	DC002	DC003	DC004	DC005	DC006
DCBF-OR		Drew's Creek/Butcher Flat				
[6]	DCBF01	DCBF02	DCBF03	DCBF04	DCBF05	DCBF06
DHA-OR		Dog Hill A				
[6]	DHA001	DHA002	DHA003	DHA004	DHA005	DHA006
DLA-OR		Delintment Lake-A				
[6]	DLA001	DLA002	DLA003	DLA004	DLA005	DLA006
DLB-OR		Delintment Lake-B				
[3]	DLB005	DLB007	PSB003			
DVP-OR		Devil Point				
[5]	DVP001	DVP002	DVP003	DVP004	DVP006	
EBC-OR		Ebell Creek				

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Oregon

[5]	EB001	EB002	EB003	EB005	EB006	
GB1-OR		Glass Buttes-1				
[48]	GBAA01	GBAA02	GBAA03	GBAA04	GBAA05	GBAA06
	GBBB01	GBBB02	GBBB03	GBBB04	GBBB05	GBBB06
	GBCC01	GBCC03	GBCC04	GBCC06	GBDD01	GBDD02
	GBDD03	GBDD04	GBDD05	GBDD06	GBFF01	GBFF02
	GBFF03	GBFF04	GBFF05	GBFF06	GBGG01	GBGG02
	GBGG03	GBGG04	GBGG05	GBGG06	GBO006	GBO012
	GBS007	GBT007	GBT008	GBZ001	GBZ002	GBZ005
	WT001	WT002	WT003	WT004	WT005	WT006
GB2-OR		Glass Buttes-2				
[26]	GBM001	GBM002	GBM003	GBM004	GBM005	GBM006
	GBM007	GBN001	GBN002	GBN003	GBN004	GBN005
	GBN006	GBO003	GBO005	GBO008	GBO009	GBO010
	GBO013	GBP001	GBP003	GBP004	GBP005	GBP006
	GBQ007	GBR007				
GB3-OR		Glass Buttes-3				
[18]	GBEE01	GBEE02	GBEE03	GBEE04	GBEE05	LGB001
	LGB002	LGB003	LGB004	LGB005	LGB006	LGBA09
	LGBB01	LGBB02	LGBB03	LGBB04	LGBB05	LGBB06
GB4-OR		Glass Buttes-4				
[17]	GBHH01	GBHH02	GBHH03	GBHH06	GBII01	GBII02
	GBII03	GBII04	GBII05	GBII06	GBL001	GBL002
	GBL003	GBL004	GBL005	GBL009	GBL010	
GB5-OR		Glass Buttes-5				
[10]	GBJ001	GBJ002	GBJ003	GBJ004	GBJ005	GBJ006
	GBJ007	GBJ008	GBJ009	GBJ010		
GB6-OR		Glass Buttes-6				
[8]	LGBA02	LGBA03	LGBA05	LGBA07	LGBA08	LGBA10
	LGBA11	LGBA12				
GB7-OR		Glass Buttes-7				
[5]	GBO001	GBO002	GBO004	GBO007	GBO014	
GB8-OR		Glass Buttes-8				
[3]	GBOR01	GBOR02	GBOR03			
GB-OR (mixture)		Juniper Ridge (mixture of Glass Buttes subsources)				
[12]	JRB001	JRB002	JRB003	JRB004	JRB005	JRB006
	JRB007	JRB008	JRB009	JRB010	JRB011	JRB012
HGM-OR		Hager Mtn/Auger Creek				
[18]	HGM001	HGM002	HGM003	HGM004	HGM005	HGM006
	HGM007	HGM008	HGM009	HGM010		
	AC003	AC005	AC007	AC008	AC009	AC010
	AC012	AC013				
HM-OR		Horse Mountain				
[16]	HM001	HM002	HM003	HM004	HM005	HM006

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Oregon

	HM007	HM008	HM009	HM010	HM011	HM012
	HMOR01	HMOR02	HMOR03	HMOR04		
HV-OR	Harper Valley/Gregory Creek					
[22]	HVOR01	HVOR02	HVOR03	HVOR04	HVOR05	HVOR06
	HVOR07	HVOR07A				
	HVOR11	HVOR12	HVOR13	HVOR14	HVOR15	HVOR16
	HVOR17	HVOR18	HVOR19	HVOR20	HVOR21	HVOR22
	HVOR23	HVOR24	HVOR25			
ID1-OR	Indian Creek-1/Dooley Mtn					
[11]	IDOR01	IDOR02	IDOR03	IDOR06	IDOR07	IDOR08
	IDOR09	IDOR10	IDOR11	IDOR12	IDOR13	
ID2-OR	Indian Creek-2/Dooley Mtn					
[2]	IDOR04	IDOR05				
INCA-OR	Inman Creek-A					
[7]	INC001	INC002	INC003	INC004	INC006	INC007
	INC012					
INCB-OR	Inman Creek-B					
[5]	INC005	INC008	INC009	INC010	INC011	
MCB-OR	McComb Butte					
[6]	MCB001	MCB002	MCB003	MCB004	MCB005	MCB006
MKB-OR	McKay Butte					
[6]	MKB001	MKB002	MKB003	MKB004	MKB005	MKB006
NEW-OR	Big Obsidian Flow (Newberry Volcano)					
[56]	BOF001	BOF002	BOF003	BOF004	BOF005	BOF006
	BOF007	BOF008				
	Buried Obsidian Flow (Newberry Volcano)					
	BUF001	BUF002	BUF003	BUF004	BUF005	BUF006
	BUF007	BUF008	BUF009	BUF010	BUF011	BUF012
	Central Pumice Flow (Newberry Volcano)					
	CPF001	CPF002	CPF003	CPF004		
	CPW001	CPW002	CPW003	CPW004		
	East Lake Flow (Newberry Volcano)					
	EL001	EL002	EL003	EL004	EL005	EL006
	EL007	EL008	EL009	EL010	EL011	EL012
	Game Hut Flow (Newberry Volcano)					
	GHF001	GHF002	GHF003	GHF004	GHF005	GHF006
	GHF007	GHF008				
	Inter-Lake Flow (Newberry Volcano)					
	ILK001	ILK002	ILK003	ILK004	ILK005	ILK006
	ILK007	ILK008				
NIC-OR	Nicol Creek					
[10]	NCA001	NCA002	NCA003	NCA005	NCA006	NCA007
	NCA008	NCA009	NCA011	NCA012		

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Oregon

OBC-OR		Obsidian Cliffs				
[2]	OBCOR-5	OBCOR-6				
PCC1-OR		Parish Cabin Campground-1				
[3]	PCC001	PCC003	PCC007			
PCC2-OR		Parish Cabin Campground-2				
[2]	PCC009	PCC011				
QM-OR		Quartz Mtn				
[10]	QM001	QM002	QM003	QM004	QM005	QM006
	QM007	QM008	QM009	QM010		
RIL-OR		Riley				
[18]	RI001	RI002	RI003	RI004	RI005	RI006
	RI007	RI008	RI009	RI010	RI011	RI012
	RI013	RI014	RI015	RI016	RI017	RI018
RRS-OR		Rimrock Spring				
[6]	RRS001	RRS002	RRS003	RRS004	RRS005	RRS006
SAW-OR		Sawmill Creek				
[6]	SAWOR01	SAWOR02	SAWOR03	SAWOR04	SAWOR05	SAWOR06
SM-OR		Spodue Mountain				
[6]	SMOR01	SMOR02	SMOR03	SMOR04	SMOR05	SMOR06
SS-OR		Surveyor Spring				
[9]	SS001	SS002	SS003	SS004	SS005	SS006
	SS007	SS008	SS009			
SVL-OR		Silver Lake/Sycan March				
[12]	SVL001	SVL002	SVL003	SVL004	SVL005	SVL006
	SM001	SM002	SM003	SM004	SM005	SM006
TH-OR		Tucker Hill				
[21]	THOR01	THOR02	THOR03	THOR04	THOR05	THOR06
	THOR07	THOR08	THOR09	THOR10	THOR11	THOR12
	THOR13	THOR15	THOR16	THOR17	THOR18	THOR19
	THOR20	THOR21	THOR22			
VEN-OR		Venator				
[6]	VEN001	VEN002	VEN003	VEN004	VEN005	VEN006
WC-OR		Wolf Creek				
[6]	WC001	WC002	WC003	WC004	WC005	WC006
WGT-OR		Wagontire				
[5]	WGT001	WGT002	WGT003	WGT004	WGT005	
WH-OR		Whitehorse				
[5]	WHOR01	WHOR02	WHOR03	WHOR04	WHOR05	
WHC-OR		Witham Creek				
[6]	WHC001	WHC002	WHC003	WHC004	WHC005	WHC006
WR-OR		Willamette River				
[1]	WROR01					
WWR-OR		Whitewater Ridge				
[9]	PCC002	PCC004	PCC006	PCC008	PCC010	PCC012

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Oregon

	WWR001	WWR002	WWR003			
YB-OR		Yreka Butte				
[18]	YBD001	YBD002	YBD003	YBD004	YBD005	YBD006
	YBE001	YBE002	YBE003	YBE004	YBE005	YBE006
	YBF001	YBF002	YBF003	YBF004	YBF005	YBF006
YB-OR (mixture)		Yreka Butte and GB1-OR				
[12]	YBC001	YBC002	YBC003	YBC004	YBC005	YBC006
	YBC007	YBC008	YBC009	YBC010	YBC011	YBC012

Obsidian Sources in Washington

IR-WA		Indian Rock, Washington				
[6]	IRWA01	IRWA02	IRWA03	IRWA04	IRWA05	IRWA06
BR-WA		Bickleton Ridge, Washington				
[15]	BRWA01	BRWA02	BRWA03	BRWA04	BRWA05	BRWA06
	BRWA07	BRWA08	BRWA09	BRWA10	BRWA11	BRWA12
	BRWA13	BRWA14	BRWA15			

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Utah

BRUT		Black Rock=21				
Bag#1	BRUT11	BRUT12	BRUT13	BRUT14	BRUT15	BRUT16
Bag#2	BRUT17 BRUT23	BRUT18	BRUT19	BRUT20	BRUT21	BRUT22
Bag#3	BRUT24 BRUT30	BRUT25 BRUT41	BRUT26	BRUT27	BRUT28	BRUT29
FWUT		Ferguson Wash=7				
Bag#1	FWUT01	FWUT02	FWUT03	FWUT04		
Bag#2	FWUT05	FWUT06	FWUT07			
GCUT		Goose Creek=6				
Bag#1	GCUT01	GCUT02	GCUT03			
Bag#2	GCUT04	GCUT05	GCUT06			
MMUT		Mineral Mtns=10				
Bag#1	MMUT07	MMUT08	MMUT09	MMUT10	MMUT11	
Bag#2	MMUT12	MMUT13	MMUT14	MMUT15	MMUT16	
MODUT		Modena/Panaca Summit=10				
Bag#1	MOUT01	MOUT02	MOUT03	MOUT04	MOUT05	
Bag#2	MOUT06	MOUT07	MOUT08	MOUT09	MOUT10	
PHUT		Pumice Hole Mine=5				
Bag#1	PHUT01	PHUT02	PHUT03	PHUT04	PHUT05	
RCUT		Rock Canyon=8				
Bag#1	RCUT01	RCUT02	RCUT03	RCUT04		
Bag#2	RCUT05	RCUT06	RCUT07	RCUT08		
TMUT		Topaz Mtn=10				
Bag#1	TMUT01	TMUT02	TMUT03	TMUT04	TMUT05	
Bag#2	TMUT06	TMUT07	TMUT08	TMUT09	TMUT10	
WMUT		White Mtns=9				
Bag#1	WMUT01	WMUT02	WMUT03	WMUT04	WMUT05	
Bag#2	WMUT06	WMUT07	WMUT08	WMUT09		
WHUT		Wildcat Hills=7				
Bag#1	WHUT01	WHUT02	WHUT03	WHUT04		
Bag#2	WHUT05	WHUT06	WHUT07			
WHCUT		Wild Horse Canyon=10				
Bag#1	WHCUT01	WHCUT02	WHCUT03	WHCUT04	WHCUT05	
Bag#2	WHCUT06	WHCUT07	WHCUT08	WHCUT09	WHCUT10	

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Wyoming and Colorado

OC-WY	Obsidian Cliff (n=21)					
	OCB002	OCB004	OCC001	OCC004	OCD003	OCD005
	OCW004	OCW005	OCW006	OCW007	OCW008	OCW009
	OCW010	OCW014	OCW015	OCW016		
	YOC001	YOC002	YOC003	YOC004	YOC006	
CC-WY	Cougar Creek (n=10)					
	CCY001	CCY002	CCY003	CCY004	CCY005	CCY006
	CCY007	CCY008	CCY009	CCY010		
GR-WY	Gibbon River (n=5)					
	GBRA01	GBRA01	GBRA02	GBRA04	GBRA05*	
TC-WY	Tanker Curve (n=10)					
	GBRB01	GBRC01	GBRC02	GBRC04	GBRC05	GBRC06
	TKC001	TKC002	TKC003	TKC004		
DR-WY	Dunraven Pass (n=1)					
	OCW011					
FC1-WY	Fish Creek (n=3)					
	FCWY01	FCWY02	FCWY08			
FC2-WY	Fish Creek-2 (n=5)					
	FC2WY01	FC2WY02	FC2WY03	FC2WY04	FC2WY05	
GRL-WY	Grassy Lake Reservoir (n=6)					
	GRLA01	GRLA02	GRLA03	GRLA04	GRLA05	GRLA06
TP1-WY	Teton Pass 1, Wyoming (n=4)					
	TPWY01	TPWY02	TPWY03	TPWY04		
KC-CO	Kings Canyon, Colorado (n=10)					
	KCCO01	KCCO02	KCCO03	KCCO04	KCCO05	KCCO06
	KCCO07	KCCO08	KCCO09	KCCO10		

* might be an outlier

Obsidian Sources in East-Central Mexico

AV	Altotonga, Veracruz [n=11]					
Box#1	AV0101	AV0102	AV0103	AV0104	AV0105	AV0106
	AV0201	AV0202	AV0204	AV0205	AV0206	

PV	Pico de Orizaba, Veracruz [n=75]					
Bag#1	PV0102	PV0103	PV0105	PV0107	PV0201	PV0301
Box#1	PV0302	PV0401	PV0402	PV0403	PV0404	PV0405
	PV0406	PV0407	PV0408	PV0409	PV0410	
	PV0601	PV0602	PV0603	PV0701	PV0702	
	PV0801	PV0802	PV0901	PV0902	PV1001	PV1002
	PV1003	PV1004	PV1005	PV1006	PV1007	PV1101
	PV1102	PV1103	PV1201	PV1202	PV1203	PV1204
	PV1205	PV1301	PV1401	PV1501	PV1601	PV1701
	PV1801	PV1901	PV1902	PV1903	PV2001	PV2101
	PV2102	PV2103	PV2104	PV2105	PV2201	PV2301
	PV2401	PV2402	PV2501	PV2502	PV2503	PV2601
	PV2701	PV2901	PV2902	PV2903	PV3501	PV3502
	PV3503	PV3504	PV3601	PV3602		

GP	Guadalupe Victoria, Puebla [n=36]					
Bag#1	GP0101	GP0103	GP0104	GP0105	GP0106	GP0107
Box#1	GP0108	GP0109	GP0110	GP0201	GP0202	GP0203
	GP0301	GP0302	GP0303	GP0304	GP0305	
	GP0306	GP0307	GP0308	GP0309	GP0310	GP0401
	GP0402	GP0403	GP0404	GP0405	GP0406	GP0407
	GP0408	GP0409	GP0410	GP0411	GP0501	GP0502
	GP0503					

DP	Derrumbadas, Puebla [n=7]					
Box#1	DP0101	DP0102	DP0103	DP0104	DP0105	DP0106
	DP0107					

ZP	Zaragoza, Puebla [n=46]					
Bag#1	ZP0101	ZP0102	ZP0103	ZP0104	ZP0105	ZP0106
Box#1	ZP0108	ZP0109	ZP0110	ZP0111	ZP0112	ZP0113
	ZP0114	ZP0115	ZP0116	ZP0117	ZP0118	ZP0119
	ZP0120	ZP0121	ZP0122			
	OP0101	OP0102	OP0103	OP0104	OP0105	OP0106
	OP0107	OP0108	OP0109	OP0110	OP0111	OP0112
	OP0113	OP0114	OP0201	OP0202	OP0203	OP0204
	OP0205	OP0206	OP0207	OP0208	OP0209	OP0210
	OP0211					

PP	Paredon, Puebla [n=37]					
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* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in East-Central Mexico

Bag#1	PP0101	PP0102	PP0201	PP0202	PP0301	PP0302
Box#2	PP0401	PP0603	PP0701	PP0801	PP0901	PP0902
	PP0903	PP0904	PP0905	PP0906	PP0907	PP0908
	PP0909	PP0910	PP1001	PP1002	PP1003	PP1004
	PP1005	PP1006	PP1007	PP1008	PP1009	PP1010
	PP1011	PP1101	PP1201	PP1202	PP1203	PP1204
	PP1301					

OM Otumba, State of Mexico [n=31]

Bag#1	OM0101	OM0102	OM0103	OM0104	OM0105	OM0106
Box#2	OM0107	OM0108	OM0109	OM0110	OM0111	
	OM0301	OM0302	OM0401	OM0402	OM0403	OM0404
	OM0405	OM0501	OM0502	OM0503	OM0504	OM0505
	OM0506	OM0507	OM0508	OM0509	OM0511	OM0601
	OM0602	OM0603				

MH Malpais, Hidalgo [n=20]

Box#2	IH0101	IH0201	IH0202	IH0203	IH0301	IH0302
	MH0102	MH0103	MH0104	MH0201	MH0203	MH0301
	MH0501					
	OH0101	OH0102	OH0201	OH0202	OH0203	OH0204
	OH0301					

LH Santa Elena, Hidalgo [n=10]

Box#2	LH0101	LH0102	LH0201	LH0202	LH0203	LH0204
	LH0301	LH0302	LH0401	LH0402		

SCA Santa Cruz Atizapan [n=6]

Box#2	YSY143	YSY144	YSY145	YSY146	YSY147	YSY148
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PH Tepalzingo, Hidalgo [n=15]

Box#3	PH0101	PH0102	PH0201	PH0301	PH0401	PH0402
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* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in East-Central Mexico

PH0403	PH0404	PH0501	PH0502	PH0503	PH0504
PH0601	PH0602	PH0603			

SH1	Sierra de Pachuca-1, Hidalgo [n=45]					
Bag#1	SH0101	SH0102	SH0201	SH0202	SH0401	SH0402
	SH0501	SH0601	SH0602	SH0603	SH0701	SH0702
	SH0801	SH0804	SH0903	SH0905	SH1001	SH1002
	SH1102	SH1201	SH1203	SH1205	SH1206	
	SH1301	SH1302	SH1401	SH1405	SH1416	SH1501
	SH1502	SH1503	SH1504	SH1601	SH1603	SH1604
	SH1605	SH1607	SH1609	SH1610	SH1611	
	CH0101	CH0102	CH0103	CH0104	CH0105	

SH2	Sierra de Pachuca-2, Hidalgo [n=9]					
Box#3	SH0301	SH0403	SH1202	SH1901	SH2102	SH2403
	SH2502	SH2506	SH2605			

SH3	Sierra de Pachuca-3, Hidalgo [n=8]					
Box#3	SH2401	SH2601	SH2602	SH2701	SH2901	SH2902
	SH2904	SH2905				

TH	Tulancingo, Hidalgo [n=30]					
Bag#1	EH0101	EH0102	EH0201	EH0202	EH0203	EH0204
Box#3	EH0301	EH0302	EH0303	EH0304	EH0305	EH0401
	EH0402	EH0403	EH0501	EH0601	EH0602	EH0603
	EH0604	EH0701	EH0702			
	TH0601	TH0901	TH1001	TH1002	TH1003	TH1004
	TH1005	TH1101	TH1102			

QH	Metzquitlan, Hidalgo [n=5]					
Box#3	QH0101	QH0102	QH0103	QH0104	QH0105	

ZH	Zacualtipan, Hidalgo [n=19]					
Bag#1	ZH0101	ZH0102	ZH0201	ZH0202	ZH0203	ZH0204
Box#3	ZH0301	ZH0302	ZH0303	ZH0401	ZH0402	ZH0501
	ZH0502	ZH0601	ZH0602	ZH0603	ZH0701	ZH0702
	ZH0802					

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Central Mexico

UM		Ucareo, Michoacan [n=34]				
Bag#1	UM0101	UM0102	UM0105	UM0106	UM0107	
Box#4	UM0201	UM0202	UM0203	UM0303	UM0305	UM0502
	UM0503	UM0504	UM0505	UM0506	UM0507	UM0508
	UM0510	UM0601	UM0605	UM0606*	UM0608	UM0609
	UM0701	UM0702	UM0703	UM0704*	UM0705	UM0706
	Um0707	UM0708	UM0709	UM0710	UM0711	
ZM		Zinapecuaro, Michoacan [n=28]				
Box#4	ZM0101	ZM0102*	ZM0103	ZM0104	ZM0105	ZM0201
	ZM0202	ZM0203	ZM0204	ZM0205	ZM0206	ZM0301
	ZM0302	ZM0304	ZM0305	ZM0401	ZM0402	ZM0403
	ZM0404	ZM0405	ZM0501	ZM0502	ZM0503	ZM0504
	ZM0601	ZM0602	ZM0603	ZM0604		
CNM		Cruz Negra, Michoacan [n=13]				
Box#4	UM0401	UM0402	UM0403	UM0404	UM0405	UM0406
	UM0407	UM0408	UC-6	ZN-5	ZN-6	ZN-7
	ZN-9					
CPM		Cerro Prieto, Michoacan [n=4]				
Box#4	MICH105A	MICH105B	MICH105C	MICH105D		
CVM		Cerro Varal, Michoacan [n=16]				
Bag#1	MICH117	MICH118A	MICH151	MICH155A	MICH155B	MICH156
Box#4	ZMM002	ZMM003	ZMM004	ZMM005	ZMM006	ZMM007
	ZMM010	ZMM011	ZMM012	ZMM013		
CZM		Cerro Zinaparo, Michoacan [n=8]				
Box#4	MICH118B	MICH120A	MICH120B	MICH121A	MICH121B	MICH121C
	MICH121D	ZMM001				

FQ **Fuentezuelas, Queretaro [n=10]**

* Indicates samples is an OUTLIER on one or more elements

Obsidian Sources in Central Mexico

Box#4	FQ1002 FZ-1	FQ1003 FZ-2*	FQ1004 FZ-3*	FQ1006 FZ-4	FQ2001 FZ-5	
PQ		El Paraiso, Queretaro [n=20]				
Box#4	PQ0101 PQ0216 RN-6 RN-13	PQ0102 RN-1 RN-7 RN-14	PQ0103 RN-2 RN-8	PQ0104 RN-3 RN-9	PQ0201 RN-4 RN-11	PQ0204* RN-5 RN-12
CLBQ		Cerro de la Bola, Queretaro [n=4]				
Box#4	CLBQ01	CLBQ02	CLBQ03	CLBQ04		
PG1		Penjamo-1, Guanajuato [n=16]				
Box#4	PG0101 PG0107 PG0127	PG0102 PG0108 PG0128	PG0103 PG0109 PG0129	PG0104 PG0110 PG0130	PG0105 PG0125	PG0106* PG0126
PG2		Penjamo-2, Guanajuato [n=18]				
Box#4	PG0201 PG0302 PG0308	PG0202 PG0303 PG0310	PG0203 PG0304 PG0311	PG0204 PG0305 PG0312	PG0205 PG0306 PG0313	PG0301 PG0307 PG0314
OJO		Ojo Zarco, Guanajuato [n=1]				
Box#4	OJO-1					

* Indicates samples is an OUTLIER on one or more elements

Obsidian Sources in Western Mexico

AJ	Ahuiscalco, Jalisco [n=14]					
	AJ1002	AJ1003	AJ1006	AJ1008	AJ1009	AJ1010
	AJ1013	AJ1014	AJ2004	AJ2006	AJ2010	AJ2012
	AJ2015	AJ2018				
NJ	Navajas, Jalisco [n=12]					
	NJ001	NJ002	NJ003	NJ004	NJ006	NJ008
	NJ011	NJ012	NJ016	NJ017	NJ019	NJ020
IXJ	Ixtepete, Jalisco [n=4]					
	IXT003	IXT004	IXT005	IXT006		
SIJ	San Isidrio, Jalisco [n=14]					
	SIJ101	SIJ102	SIJ103	SIJ104	SIJ105	SIJ106
	SIJ107	SIJ108	SIJ109	SIJ203	SIJ304	SIJ402
	SIJ404	SIJ504				
HXJ	Huaxtla, Jalisco [n=5]					
	HXJ009	HXJ014	HXJ015	HXJ016	HXJ019	
BQJ	Boquillas, Jalisco [n=13]					
	BQJ003	BQJ004	BQJ005	BQJ007	BQJ008	BQJ011
	BQJ013	BQJ014	BQJ015	BQJ016	BQJ017	BQJ019
	BQJ020					
LPJ	La Primavera, Jalisco [n=7]					
	EZJ001	EZJ002	EZJ003	EZJ004	EZJ005	EZJ006
	EZJ007					
SJLA	San Juan del los Arcos, Jalisco [n=12]					
	SJLA03	SJLA05	SJLA08	SJLA12	SJLA16	SJLA17
	SJLA21	SJLA22	SJLA23	SJLA24	SJLA25	SJLA26
TJ	Teuchitlan/La Mora, Jalisco [n=16]					
	TJ001	TJ002	TJ004	TJ006	TJ007	TJ019
	TJ020	TJ021	TJ022	TJ023	TJ024	TJ025
	PTJ001	PTJ005	PTJ006	PTJ011		
PJ	La Pila, Jalisco [n=13]					
	LPT001	LPT002	LPT003	LPT004	LPT005	LPT006
	LPT008	LPT009	LPT010	LPT011	LPT012	LPT013
	LPT014					

* Indicates sample is an OUTLIERS on one or more elements

Obsidian Sources in Western Mexico

QJ	Tequila, Jalisco [n=12]					
	TQJ101	TQJ102	TQJ105	TQJ111	TQJ115	TQJ117
	TQJ119	TQJ211	TQJ212	TQJ213	TQJ214	TQJ215
STJ	Santa Teresa, Jalisco [n=15]					
	STJ401	STJ402	STJ403	STJ405	STJ406	STJ503
	STJ509	STJ511	STJ514	STJ515	STJ605	STJ606
	STJ616	STJ618	LMJ206			
PRJ	La Providencia, Jalisco [n=11]					
	LP1P03	LP1P04	LP1P06	LP1P07	LP1P17	LP2C24
	LP2C25	LP2C35	LP2C43	LP2C44	LP2C45	
JJ	La Joya, Jalisco [n=23]					
	JJ0063	JJ0068	JJ0078	JJ0086	JJ0090	JJ0095
	JJ0111	JJ0801	JJ0802	JJ0803	JJ0804	JJ0805
	AMJ002	AMJ003	AMJ004	AMJ005	AMJ006	AMJ021
	AMJ022	AMJ023	AMJ024	AMJ041	AMJ044	
CMJ	Cinco Minas/Magdalena, Jalisco [n=6]					
	CMJ001	CMJ002	CMJ003	CMJ004	CMJ005	CMJ006
LQJ	La Quemada, Jalisco [n=10]					
	LQJ001	LQJ002	LQJ004	LQJ005	LQJ006	LQJ008
	LQJ012	LQJ013	LQJ017	LQJ018		
VNN-1	Volcan Navajas-1, Nayarit [n=9]					
	VNN006	VNN007	VNN008	VNN009	VNN010	VNN011
	VNN012	VNN013	VNN014			
VNN-2	Volcan Navajas-2, Nayarit [n=5]					
	VNN001	VNN002	VNN003	VNN004	VNN005	
SLN	San Leonel, Nayarit [n=9]					
	SLN001	SLN002	SLN003	SLN004	SLN005	SLN006
	SLN007	SLN008	SLN009			
IRN	Ixtlan del Rio, Nayarit [n=21]					
	IRN001	IRN002	IRN003	IRN004	IRN005	IRN006
	IRN007	IRN008	IRN009	IRN010	IRN012	IRN016
	IRN017	IRN018	IRN019	IRN020	IRN021	IRN022
	IRN023	IRN024	IRN025			
NCZ	Nochistlan, Zacatecas [n=10]					

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Obsidian Sources in Western Mexico

	TU1001	TU1002	TU1006	TU2001	TU2002	TU2005
	TU2006	TU3003	TU3004	TU3006		
HZZ		Huitzila, Zacatecas [n=17]				
	LH0001	LH0003	LH0004	LH0005	MT0001	MT0002
	MT0003	MT0004	MT0005	MT0006	UH1001	UH1002
	UH1003	UH1004	UH1005	MP1I01	MP1K03	
CND		Cerro Navajas, Durango [n=20]				
	LA0001	LA0002	LA0003	LA0004	LA0005	LA0006
	LA0007	LA0008	LA0009	LA0010		
	LE0001	LE0002	LE0003	LE0004	LE0005	LE0006
	LE0007	LE0008	LE0009	LE0010		
LLJ		La Lobera, Jalisco [n=16]				
	LL2002	LL3002	LL3011	LL3012	LL3015	LL4002
	LL4004	LL4005	MC0001	MC0002	MS0001	MS0002
	MS0003	MS0004	MS0005	MS0006		
LGJ		Llano Grande, Jalisco [n=12]				
	ACJ001	ACJ002	ACJ003	ACJ004	ACJ005	ACJ006
	ACJ007	ACJ008	ACJ009	ACJ010	LGJ401	LGJ402
GEJ		Hacienda Guadalupe, Jalisco [n=7]				
	GEJ001	GEJ005	GEJ007	GEJ008	GEJ010	GEJ018
	GEJ019					
JEJ		San Juanito de Escobedo, Jalisco [n=5]				
	JEJ001	JEJ002	JEJ003	JEJ004	JEJ007	
OSJ		Osotero, Jalisco [n=15]				
	OSJ005	OSJ010	OSJ016	OSJ018	OSJ021	OSJ023
	HSS001	HSS002	HSS003	HSS006	HSS007	SSC103
	SSC105	SSC108	SSC210			

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Obsidian Sources in Northern Mexico

LJCH-MX **Arroyo Los Jagueyes, Chihuahua, Mexico**
[11] LJCH01 LJCH02 LJCH03 LJCH04 LJCH05 LJCH06
 LJCH07 LJCH08 LJCH09 LJCH10 LJCH11

LVS-MX **Los Vidrios, Sonora, Mexico**
[4] LVSM01 LVSM02 LVSM03 LVSM04

VAB-MX **Valle del Azufre, Baja, Mexico**
[11] VAB001 VAB002 VAB003 VAB004 VAB005 VAB006
 VAB007 VAB008 VAB009 VAB010 VAB011

SF-CH **Sierra Fresnel, Chihuahua**
 SFCH01 SFCH02 SFCH03 SFCH04 SFCH05 SFCH06
 SFCH07 SFCH08 SFCH09 SFCH10 SFCH11 SFCH12
 SFCH13 SFCH14 SFCH15 SFCH16 SFCH17 SFCH18

SEL-CH **Selene, Chihuahua**
 KIB001 KOB002 KIB003 KIB004

Obsidian Sources in Guatemala

CG=12	El Chayal, Sacatepequez					
Bag #1	CG0001	CG0002	CG0003	CG0005	CG0006	CG0007
Box	CG0009	CG0010	CG0013	CG0014	CG0015	CG0016
IG=10	Ixtepeque, Jutiapa					
Bag #1	IG0001	IG0002	IG0003	IG0004	IG0005	
Box	IG0006	IG0007	IG0008	IG0009	IG0010	
JG=5	Jalapa, Jutiapa					
	JG0001	JG0002	JG0003	JG0004	JG0005	
LG=2	San Lorenzo, San Marcos					
	LG7101	LG7103				
LAG=10	Laguna Ayarza, Santa Rosa					
Bag #1	LAG001	LAG002	LAG003	LAG004	LAG005*	
Box	LAG006	LAG007	LAG008	LAG009	LAG010	
MG=2	Media Cuesta, Santa Rosa					
	MG7102	MG7103				
SBMA=9	San Bartolome Milpas Altas, Sacatepequez					
Bag #1	SBMA01	SBMA02	SBMA03	SBMA04	SBMA05	
Box	SLG001	SLG002	SLG003	SLG004	SLG005	
SMJ1=9	San Martin Jilotepeque-1, Chimaltenango					
Bag #1	SMJ028	SMJ029	SMJ030	SMJ031	SMJ032	
Box	SMJ068	SMJ071	SMJ072	SMJ073		
SMJ-2	San Martin Jilotepeque-2, Chimaltenango					
	No samples					
SMJ3=3	San Martin Jilotepeque-3, Chimaltenango					
	SMJ038	SMJ041	SMJ048			
SMJ4=2	San Martin Jilotepeque-4, Chimaltenango					
	SMJ035	SMJ037				
SMJ5=3	San Martin Jilotepeque-5, Chimaltenango					
	SMJ061	SMJ063	SMJ066			
SMJ6=5	San Martin Jilotepeque-6, Chimaltenango					
	SMJ050	SMJ052	SMJ053	SMJ054	SMJ056	
SSG=10	Sansare, El Progreso					
Bag #1	SSG006	SSG007	SSG008	SSG009	SSG010	
Box	SSG011	SSG012	SSG013	SSG017	SSG023	
TG=1	Tajumulco (Palo Gordo), San Marcos					
	GG7103					

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Obsidian Sources in Honduras

EHR	La Esperanza, Intibuca					
[11]	EHR001	EHR002	EHR003	EHR004	EHR005	EHR006
	EHR007	EHR008	EHR009	EHR010	EHR011	
GHR	Guinope, El Paraiso					
[4]	GHR001	GHR002	GHR003	GHR004		
ASH	Agua Sucia, Santa Barbara					
[5]	ASH001	ASH002	ASH003	ASH004	ASH005	
AGH	Agua Helada, Santa Barbara					
[5]	AGH001	AGH002	AGH003	AGH004	AGH005	
QAHH	Quebrada Agua Helada, Santa Barbara					
[10]	QAHH01*	QAHH02	QAHH03*	QAHH04*	QAHH05	
	TNH001	TNH002*	TNH003	TNH004	TNH005	
LUH	La Union, Santa Barbara					
Bag#1	LUH001	LUH002	LUH003	LUH004	LUH005	LUH006

Obsidian Sources in Nicaragua

CNQ	Nicaragua		
[3]	CNQ001	CNQ001	CNQ003

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Ecuador and Colombia

BERMEJO	Bermejo, Sucumbios					
[3]	CKE031	CKE032	CKE033			
CARBONCILLO	Carboncillo, Loja					
[6]	SAR001	SAR002	SAR003	SAR004	SAR005	SAR006
CAS-A	Casaurco-A, Pichincha					
[3]	OY-1	OY-2	OY-3			
CAS-B	Casaurco-B, Pichincha					
[5]	OY-4	OY-5	OY-6	OY-7	OY-8	
COS-A	Cosanga-A, Sucumbios					
[6]	CKE001	CKE002	CKE003	CKE004	CKE012	CKE024
COS-B	Cosanga-B, Sucumbios					
[7]	CKE005	CKE006	CKE007	CKE008	CKE014	CKE022
	CKE025					
CALL	Callejones, Pichincha					
[17]	CAL101	CAL102	CAL103	CAL104	CAL105	CAL107
	CAL109	CAL111	CAL112	MCI001	MCI003	MCI013
	MCI014	WME082	WME086	WME087	WME092	
MULL	Mullumica, Pichincha					
[21]	MCI002	MCI004	MCI006	MCI007	MUL001	MUL002
	MUL003	MUL004	MUL005	MUL006	MUL007	MUL008
	MUL009	WME080	WME081	WME083	WME084	WME085
	WME089	WME090	WME091			
MCINF	Mullumica-Cursor-Inferior, Pichincha					
[7]	MCI005	MCI008	MCI012	MPC001	MPC002	MPC003
	WME093					
YANAURCO	Yanaurco-Quiscatola, Pichincha					
[15]	ELB003	ELB004	ELB005	ELB006	ELB007	
	WME071	WME072	WME073	WME074	WME075	WME076
	WME078	WME079	QSEC01	YCEC01		
TABLON	El Tablon, Loja					
[4]	CKE043	CKE049	CKE050	CKE052		
outlier	Mullumica outlier					
[1]	ELB010					
RIOHONDO	Rio Hondo, Colombia					
[10]	RHC001	RHC002	RHC003	RHC004	RHC005	RHC006
	RHC007	RHC008	RHC009	RHC010		

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Obsidian Sources in Peru

YPU		Yanaranga, Dept of Huancavelica				
[4]	YPU001	YPU002	YPU003	YPU005		
PUZOLANA		Puzolana, Dept of Ayacucho				
[15]	QP1006	QP1007	QP1008	QP1010	QP1011	
	RLB380	RLB381	RLB382			
	VCPU01	VCPU02	VCPU03	VCPU04	VCPU05	VCPU06
	VCPU07					
QUISP		Quispisisa, Huanca Sancos, Dept of Ayacucho				
[17]	QP1001	QP1002	QP1003	QP1004	QP1005	QP2001
	QP2002	QP2003	QP2004	QP2005	QP2006	QP2007
	QP3001	QP3002	QP3003	QP3004	QP3005	
JAMPAT		Jampatilla, Dept of Ayacucho				
[6]	RLB039	RLB040	RLB041	RLB042	RLB043	RLB044
LISAHUA		Lisahuacho, Dept of Apurimac				
[11]	LPP001	LPP002	LPP003	LPP004	LPP005	LPP006
	LPP007	LPP008	LPP009	LPP010	WAS079A	
POTRERO		Potreropampa, Dept of Apurimac				
[10]	PPP001	PPP002	PPP003	PPP004	PPP005	PPP006
	PPP007	PPP008	PPP010	WAS076A		
ACP		Accobangara, Chumbivilcas				
[8]	ACP001	ACP002	ACP003	ACP004	ACP005	ACP006
	ACP007	ACP008				
TICLL		Cerro Ticllago, Dept of Apurimac				
[11]	RLB420	RLB421	RLB422	RLB423	RLB424	RLB425
	RLB426	RLB427	RLB428	RLB429	RLB430	
ANILLO		Anillo, Dept of Arequipa				
[4]	NT0057	NT0062	NT0063	NT0065		
UYO-UYO		Uyu Uyo, Dept of Arequipa				
[5]	UUP001	UUP002	UUP003	UUP004	UUP006	
CHIVAY		Chivay, Dept of Arequipa				
[29]	ARPU01	ARPU02	ARPU03	ARPU04	ARPU05	ARPU06
	ARPU07	ARPU08	ARPU09	ARPU10	ARPU11	ARPU12
	ARPU13	CHIVAY2	CHIVAY3	CHIVAY4	CHIVAY5	CHIVAY6
	NT0001	NT0002	NT0003	NT0004	NT0006	NT0007
	NT0008	NT0009	NT0010	NT0011	NT0012	
ACONCA		Cerro Aconcahua, Dept of Puno				
[10]	AP0001	AP0002	AP0003	AP0004	AP0005	AP0006
	AP0007	AP0009	AP0010	AP0011		
SAYROSA		Sayrosa, Dept of Apurimac				
[10]	SAY001	SAY002	SAY003	SAY004	SAY005	SAY006
	SAY007	SAY008	SAY009	SAY010		
ALCA-1		Alca-1, Dept of Arequipa				

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Obsidian Sources in Peru

[20]	JJO001	JJO002	JJO009	JJO010	JJO011	JJO012
	JJO013	JJO014	JJO015	JJO016	JJO017	JJO018
	JJO019	KRA001	KRA002	KRA005	KRA006	KRA007
	KRA008	KRA009				
ALCA-2		Alca-2, Dept of Arequipa				
[2]	KRA003	KRA004				
ALCA-3		Alca-3, Dept of Arequipa				
[4]	KRA010	KRA011	KRA012	KRA013		
ALCA-4		Alca-4, Dept of Arequipa				
[6]	KRA097	KRA098	KRA099	KRA100	WAS010	WAS023
	NT0078	NT0079	NT0080			
ALCA-5		Alca-5, Dept of Arequipa				
[9]	KRA104	KRA105	KRA106	KRA107	KRA108	KRA109
	KRA110	WAS042	WAS045			
ALCA-7		Alca-7, Dept of Arequipa				
[2]	KRA101	KRA102				
CAYLL		Caylloma, Dept of Arequipa				
[]						
MACP		Macusani, Dept of Puno				
[1]	MACP01					

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Bolivia

CHARANA		Charaña, Pacajes Province				
[12]	CHA051	CHA101	CHA102	CHA103	CHA161	CHA162
	CHA163	CHB001	CHB002	CHB004	CHB005	CHB006
KASKIO		Cerro Kaskio, Lipez				
[8]	CKB101	CKB102	CKB103	CKB104	CKB105	CKB201
	CKB202	CKB203				
SORASORA		Sora Sora (Pumiri), Potosi				
[6]	SSB001	SSB002	SSB003	SSB004	SSB005	SSB006

26 **Samples**

Obsidian Sources in Northwestern Argentina

CVA-1	Caldera Vilama-1, Jujuy					
	No samples					
CVA-2	Caldera Vilama-2, Jujuy					
[3]	NGS027a	NGS027b	NGS027c			
RAMADAS	Ramadas, Salta					
[9]	PSE036A	PSE061	PSE062	PSE063	PSE065	PSE066
	PSE068	PSE069	PSE070			
TOCOMAR	Alto Tocomar, Salta					
[16]	PSE052	PSE053	PSE054	PSE055	PSE056	PSE057
	PSE058	PSE059	TOC001	TOC002	TOC003	TOC004
	TOC005	TOC006	TOC007	TOC008		
QUIRON	Quiron, Salta					
[5]	MQ-01	MQ-02	MQ-03	MQ-04	MQ-05	MQ-06
	MQ-07	MQ-08	MQ-10	MQ-15	MQ-17	MQ-18
	MQ-19	MQ-20				
ARCH	Archibarca, Salta					
[8]	AAA001	AAA002	AAA003	AAA004	AAA005	
	AAB001	AAB002	AAB003			
SHM	Salar del Hombre Muerto, Catamarca					
[4]	AJE006	AJE018	AJE026	PSE023		
LCA	Laguna Cavi, Catamarca					
[8]	LCA001	LCA002	LCA003	LCA004	LCA005	LCA006
	LCA007	NGS002				
ONA	Ona, Catamarca					
[10]	OARG01	OARG02	OARG03	OARG04	OARG05	OARG06
	OARG07	OARG08	OARG09	OARG10		
CPA	Cueros de Purulla-Chascon, Catamarca					
[14]	PSE072	PSE073	PSE074	PSE075	PSE077	PSE078
	PSE079	PSE081	PSE082	PSE083	PSE087	PSE088
	PSE091	PSE093				
ZAPALERI	Zapaleri, Jujuy					
[7]	ZAP001	ZAP002	ZAP004	ZAP006	ZAP007	ZAP008
	ZAP009					

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Obsidian Sources in Central and Southern Argentina

LCM		Las Cargas, Mendoza				
[20]	LCS001	LCS007	LCS009	LCS010	LCS013	
	LCS014	LCM001	LCM002	MZA015	MZA016	
	VAD096	VAD097	VAD098	VAD099	VAD100	VAD101
	VAD102	VAD103	VAD104	VAD105		
PARAM		Arroyo Paramillos, Mendoza				
[]						
LDM		Laguna del Diamante, Mendoza				
[9]	LDM001	LCM003	LCM004	MZA011		
	VAD076	VAD079	VAD080	VAD082	VAD084	
EPM-1		El Peceno-1, Mendoza				
[18]	ELPE01	ELPE02	ELPE03	ELPE04	ELPE05	ELPE06
	ELPE07	ELPE11	VM016	VM017	VM018	VM020
	VM022	LSM235	LSM236	LSM237	LSM238	LSM239
EPM-2		El Peceno-2, Mendoza				
[11]	ELPE09	ELPE14	ELPE16	ELPE17	ELPE22	ELPE24
	EPM001	EPM002	LSM240	LSM242	LSM243	
CQM		Coche Quemada, Mendoza				
[13]	COQU01	COQU02	COQU03	COQU04	COQU05	COQU06
	COQU07					
	LSM253	LSM254	LSM255	LSM256	LSM257	LSM258
ZAINO		Zaino, Mendoza				
[7]	LSM259	LSM260	LSM261	LSM262	LSM263	LSM264
	LSM265					
CHN		Cerro Huenul, Neuquen				
[12]	CHN002	CHN003	CHN004	CHN005	CHN006	CHN007
	MZA002	MZA003	VM001	VM002	VM004	VM005
PCN		Portada Covunco (La Bandera), Neuquen				
[6]	LBN001	LBN002	LBN003	LBN004	LBN005	LBN006
LACAR		Lago Lacar, Neuquen				
[6]	NQA005	NQA008	NQC001	NQC002	NQC003	NQC004
CP/LL		Cerro de la Planicies/Lago Lolog, Neuquen				
[8]	NQA001	NQA002	NQA003	NQA004		
	NQB001	NQB002	NQB003	NQB004		
VAR		Varvarco, Neuquen				
[7]	RAM051	RAM052	RAM053	RAM054	RAM055	RAM056
	RAM057					
YUCO		Yuco, Neuquen				
[4]	NQD001	NQD002	NQD003	NQD004		
MELIQ		Meliquina, Neuquen				
[4]	NQE001	NQE002	NQE003	NQE004		

Obsidian Sources in Central and Southern Argentina

PDA-1		Pampa del Asador-1, Santa Cruz				
[15]	PAC001	PAC002	PAC003	CSPA13	CSPA15	CSPA37
	CSPA38	CSPA39	CSPA41	CSPA42	CSPA43	
	SCPA11	SCPA12	SCPA14	SCPA15		
PDA-2		Pampa del Asador-2, Santa Cruz				
[14]	CSPA10	CSPA12	CSPA16	CSPA18	CSPA19	CSPA20
	CSPA33	CSPA34	CSPA35	CSPA36	SCPM01	SCPM03
	SCPA10	SCPA13				
PDA-3		Pampa del Asador-3, Santa Cruz				
[5]	CSPA11	CSPA29	SCPM16	SCPM18	SCPA16	
TRC		Tres Cerros, Santa Cruz				
[15]	GAB001	GAB002	GAB003	GAB004	GAB006	GAB007
	GAB008	GAB009	GAB010	GAB011	GAB012	GAB013
	GAB014	GAB015	GAB016			
MIXED		Santa Cruz mixed sources				
[4]	CSPA04	CSPA05	CSPA06	CSPA09		
CTC		Cerro Obsidiana, Chubut				
[4]	CTCO01	CTCO02	CTCO03	CTCO04		

Obsidian Sources in Chile

SALTARA		Salar del Tara, San Pedro de Atacama				
[7]	ZZ013 ZZ032	ZZ014	ZZ015	ZZ029	ZZ030	ZZ031
Tara Lake						
[10]	COP001 COP007	COP002 COP008	COP003 COP009	COP004 COP010	COP05	COP006
Lascar		Lascar, San Pedro de Atacama				
[6]	COP011	COP012	COP015	COP016	COP017	COP018
OUTLIERS		Lascar (NOT), San Pedro de Atacama				
[2]	COP013	COP014				
Machuca		Machuca, San Pedro de Atacama				
[12]	COP019 COP025	COP020 COP026	COP021 COP027	COP022 COP028	COP023	COP024
Los Patos		Los Patos,				
[10]	COP029 COP035	COP030 COP036	COP031 COP037	COP032 COP038	COP033	COP034
QPELUN		Quebrada Pelun, San Pedro de Atacama				
[11]	ZZ016 ZZ034	ZZ017 ZZ035	ZZ018 ZZ036	ZZ019 ZZ037	ZZ028 ZZ038	ZZ033
PRC1		Parinacota-1				
[8]	IAI032 IAI039 NT0071	IAI034 IAI040 NT0072	IAI035 NT0066 NT0073	IAI036 NT0067 NT0074	IAI037 NT0068 NT0075	IAI038 NT0070
PRC2		Parinacota-2				
[3]	IAI030	IAI031	IAI033			
CABALLOS		Arroyo de los Caballos, Santiago				
[6]	CHCA01	CHCA02	CHCA03	CHCA04	CHRC01	CHRC02
NNCL		Nieves Negras, Santiago [BASALT]				
[--]		NNCH01				
MAULE-1		Laguna del Maule-1, Santiago				
[18]	ASC005 LMC107 MZA008	ASC006 MZA006 MZA009	ASC007 MZA007 MZA010	LMC102 LSM244 MZA012	LMC104 LSM245 MZA013	LMC106 LSM246 *MZA014*
MAULE-2		Laguna del Maule-2 (Las Nieblas), Santiago ALSO in Mendoza				
[20]	ASC001 LMC110 BAT205 NALE02	ASC003 LMC111 BAT206 NALE03	ASC004 BAT201 BAT207	LMC101 BAT202 BAT208	LMC108 BAT203 BAT209	LMC109 BAT204 NALE01
MAULE-3		Laguna del Maule-3, Santiago				
[2]	LMC103	LMC105				
CHAITEN		Chaiten Volcano, Palena				
[5]	CHC001	CSPA02	CSPA26	CSPA27	CHAIT-1	
OTWAY		Seno Otway, Magellanes				
[4]	CSPA01	CSPA23	CSPA24	CSPA25		
SOLL		Sollipulli				
[3]	SOLL-1	SOLL-2	SOLL-3			

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Armenia, Caucasus Region, and Afghanistan

ASHOTSK		Ashotsk				
[8]	ARF062	ARF063	ARF066-1	ARF066-2	ARO164	ARO165
	BVO006	BVO007				
METZ ARTENI		Metz Arteni				
[6]	ARF067-1	ARF067-2	ARF067-3	ARF075	ARO011	ARO012
POKR ARTENI		Pokr Arteni				
[14]	ARF018	ARF019	ARF020	ARF041-1	ARF041-2	ARF042-1
	ARF042-2	ARF068-1	ARF068-2	ARF068-3	ARF068-4	ARF068-5
	ARF068-6	ARF068-7				
GUTANSAR		Gutansar				
[34]	ARF006-1	ARF006-2	ARF006-3	ARF021	ARF022	ARF044
	ARF045	ARF046	ARF049	ARF050-1	ARF050-2	ARF065
	ARF072-1	ARF076-1	ARF076-3	ARF077-2	ARF077-3	ARF078-1
	ARF078-2	ARF078-3	ARO061	ARO062	ARO068	ARO070
	ARO072	ARO074	ARO081	ARO082	ARO094	ARO201
	BVO010	BVO011	BVO012	BVO013		
DAMLIK		Damlik				
[2]	ARF069-2	ARF069-3				
HANKAVAN		Hankavan				
[3]	ARO083	ARO084	ARO087			
TSAGH		Tsaghkunyats				
[2]	BVO015	BVO016				
KAMAKAR		Kamakar				
[2]	ARF064	ARF071				
BAZENK		Bazenk				
[8]	ARF058	ARF082-2	ARF082-3	BVO024	BVO025	BVO026
	BVO057	BVO058				
HATIS		Hatis				
[10]	ARF048	ARF072-2	ARF072-3	ARF073	ARF074-1	ARF074-2
	ARO008	ARO009	BVO008	BVO009		
CHORAPHOR		Choraphor/Vardenis				
[3]	ARF061	BVO014	BVO059			
GEGHASAR		Geghasar				
[7]	ARF052	ARF054	ARF055	ARF079-1	ARF079-2	ARF079-3
	ARF080					
SEVKAR		Sevakar				
[9]	ARF033	ARF034	ARF035	ARF036	ARF038	
	ARF081-1	ARF081-2	ARF081-3	ARF082-1		
SATANAKAR		Satanakar				
[3]	BVO030	BVO031	BVO032			
SPITAKSAR		Spitaksar				
[2]	BVO022	BVO023				

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Armenia, Caucasus Region, and Afghanistan

KELBAD		Kelbadzar/Kelbajar/Kechel Dag, Azerbaijan				
[9]	AZF002	AZF003	AZO201	AZZ-01A	AZZ-01B	AZZ-02A
	AZZ-02B	AZZ-03A	AZZ-03B			
CHIKIANI		Chikiani, Georgia				
[12]	BVO017	BVO018	BVO019	BVO020	GEO002	GEF002
	GEF007	GEF008-1	GEF008-2	GEF011-3	GEF012	GEF013-1
BAKSAN		Baksan River, North Caucasus				
[2]	CBO008	CBO009				
DASHT		Dasht-i-Nawur, Afghanistan				
[5]	DASHT-1	DASHT-2	DASHT-3	DASHT-5	DASHT-7	

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Turkey

BINGOL-A	Bingol-A, Bingol Province					
[7]	BTU001 BIN001	BTU002	BTU003	BTU004	BTU005	BTU006
BINGOL-B	Bingol-B, Bingol Province					
[4]	BTU007	BTU008	BTU009	CAT001		
GOLLU DAG	Gollu Dag/Ciftlik, Nigde Province					
[9]	KCT001 KCT007	KCT002 KCT008	KCT003 KCT009	KCT004	KCT005	KCT006
NENEZI DAG	Nenezi Dag, Aksaray Province					
[4]	KCT010	KCT011	KCT012	KCT013		
MEYDAN DAG	Meydan Dag, Van Province					
[18]	MTTU01 MTTU08 EAF009 MDT001	MTTU02 MTTU08 EAF068-1 MDT002	MTTU03 EAF068-2 MDT003	MTTU04 EAF069-1 MDT004	MTTU05 EAF069-2 MDT005	MTTU06
TENDUREK	Tendurek Mtn, Agri Province					
[8]	TMTU01 TMTU07	TMTU02 TMTU08	TMTU03	TMTU04	TMTU05	TMTU06
SRK1-TU	Sarikamis-1, Kars Province					
[11]	SATU01 SATU07 SRK-03	SATU02 SATU08 SRK-06	SATU03 SATU09 SRK-11	SATU04 SATU10	SATU05 EAF004	SATU06
SRK2-TU	Sarikamis-2, Kars Province					
[3]	SRK2-06	SRK2-11	SRK2-14			
SUPHAN DAG	Suphan Dag, Bitlis Province					
[16]	SMTU01 SMTU07 SDT001	SMTU02 SMTU08 SDT002	SMTU03 SMTU09 SDT003	SMTU04 SMTU10 SDT004	SMTU05 SDT005	SMTU06 SDT006
NMT DAG-1	Nemrut Dag-1, Bitlis Province					
[2]	NMTU03	NMTU04				
NMT DAG-2	Nemrut Dag-2, Bitlis Province					
[3]	NDA001	NDA002	NMD005			
NMT DAG-4	Nemrut Dag-4, Bitlis Province					

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Obsidian Sources in Turkey

[4] NMTU01 NMTU02 NMTU05 NMD002

NMT DAG-6 Nemrut Dag-6, Bitlis Province

[1] NMD004

AM-BAZ Acigol-East (Bogazkoy-Mesaurstu)

[3] BAZ-01 BAZ-16 BAZ-17

AM-TLC Acigol-East (Tulece Tepe)

[3] TLC-16 TLC-17 TLC-18

KARS-DGR Kars-Digor (Koca Koy)

[3] DGR-02 DGR-04 DGR-05

PSL Pasinler (Buyukdere)

[3] PSL-02 PSL-03 PSL-06

Obsidian Sources in Ethiopia, Eritrea and Yemen

AAE		Ado Ale, Afar Region				
[3]	AAE01	AAE02	AAE03			
ALE		Alcoma, Afar Region				
[5]	ALE01	ALE02	ALE03	ALE04	ALE05	
ADUE		Ado Da'Ure, Afar Region				
[1]	ADUE01					
DBE		Dabbahu, Afar Region				
[4]	DBE001	DBE002	DBE003	DBE004		
DUE		Da'Ure, Afar Region				
[2]	DUE01	DUE02				
FAG		Freo Amante Gurage, Southern Nations Region				
[3]	SBE007A	SBE007B	SBE007C			
FANT		Mt. Fantalle				
[1]	FANT01					
HAIL		Hailimarium, Southern Nations Region				
[3]	SBE008A	SBE008B	SBE008C			
SGE		Silti Gurage, Southern Nations Region				
[6]	KIM001	KIM002	KIM003	KIM004	KIM005	KIM006
SIDAMA		Sidama, Southern Nations Region				
[4]	SBE006	SBE010A	SBE010B	SBE010C		
SODDO		Soddo, Southern Nations Region				
[11]	SBE001A	SBE001B	SBE001C	SBE002	SBE004A	SBE004B
	SBE005A	SBE005B	SBS002	SBS095	SBS115*	
KRE		Kusrale, Eritrea				
[3]	KRE001	KRE002	KRE003			

* Indicates sample is an OUTLIER on one or more elements

Yemen mixed sources

YE02 YE03 YE04 YE05

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Kenya and Tanzania

Frank Brown's mixed sources

FBR004	FBR005	FBR006	FBR007	FBR008	FBR009
FBR010	FBR011	FBR012	FBR013	FBR014	FBR015
FBR016	FBR017	FBR018	FBR019	FBR020	FBR021
FBR022	FBR023	FBR024	FBR025	FBR026	FBR027
FBR028	FBR029	FBR030			
FBR033	FBR034	FBR035	FBR036	FBR037	FBR038
FBR039	FBR040	FBR041	FBR042	FBR043	

Stan Ambrose's mixed sources

KES126	KES135	DES148	KES174	KES176	KES182
KES183	KES207	KES244	KES255	KES300	KES318
KES346	KES372				

Carolyn Dillian's mixed sources

CDK001	CDK002	CDK003	CDK004
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Richard Gramly samples from Crescent Island

KEA001	KEA002
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Tyler Brunette samples from Tanangire National Park, Tanzania

TNP001	TNP002
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Obsidian Sources in Japan (Island of Honshu)

JPG01		Kouzushima - OnbaseJima				
[7]	JPG01-a JPG01-g	JPG01-b	JPG01-c	JPG01-d	JPG01-e	JPG01-f
JPG02		Kouzushima - Sanukazaki				
[6]	JPG02-a	JPG02-c	JPG02-d	JPG02-e	JPG02-f	JPG02-g
JPG03		Amagi - Kashiwatouge				
[6]	JPG03-a	JPG03-b	JPG03-c	JPG03-d	JPG03-e	JPG03-f
JPG04		Hakone - Hatajuku				
[6]	JPG04-a	JPG04-b	JPG04-c	JPG04-d	JPG04-e	JPG04-f
JPG05		Tateshina - Tsumetayama				
[5]	JPG05-a	JPG05-b	JPG05-c	JPG05-d	JPG05-e	JPG05-f
JPG06		Suwa - Hoshigatou				
[6]	JPG06-a	JPG06-b	JPG06-c	JPG06-d	JPG06-e	JPG06-f
JPG07		Wada-O - Takamatsuzawa				
[6]	JPG07-a	JPG07-b	JPG07-c	JPG07-d	JPG07-e	JPG07-f
JPG08		Wada-W - Takayama				
[6]	JPG08-a	JPG08-b	JPG08-c	JPG08-d	JPG08-e	JPG08-f
JPG09		Wada-W - Higashimochiya				
[6]	JPG09-a	JPG09-b	JPG09-c	JPG09-d	JPG09-e	JPG09-f
JPG10-1		Wada-W - Kobukazawa-1				
[8]	JPG10-a JPG10-i	JPG10-b JPG10-j	JPG10-c	JPG10-f	JPG10-g	JPG10-h
JPG10-2		Wada-W - Kobukazawa-2				
[2]	JPG10-d	JPG10-e				
JHDK		Dekishima, Honshu				
[6]	JHDK01	JHDK02	JHDK03	JHDK04	JHDK05	JHDK06
JHFK		Fukaura, Honshu				
[6]	JHFK01	JHFK02	JHFK03	JHFK04	JHFK05	JHFK06
JHHK		Hanaizumi-Kazawa, Honshu				
[2]	JHHK01	JHHK02				
JHHZ		Hanaizumi, Honshu				

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Japan (Island of Honshu)

[3]	JHHZ01	JHHZ02	JHHZ03			
JHKG		Kanegasaki, Honshu				
[6]	JHKG01	JHKG02	JHKG03	JHKG04	JHKG05	JHKG06
JHKM		Kodomari, Honshu				
[1]	JHKM01					
JHTM		Takamoriyama, Honshu				
[2]	JHTM01	JHTM02				
JHTW		Tazawako-Haruyama, Honshu				
[4]	JHTW01	JHTW02	JHTW03	JHTW04		
JHYK		Yunokura, Honshu				
[3]	JHYK01	JHYK02	JHYK03			
JGA		Gassan				
[6]	JGA001	JGA002	JGA003	JGA004	JGA005	JGA006
JIT		Itayama				
[6]	JIT001	JIT002	JIT003	JIT004	JIT005	JIT006
JUO		Unouma-Oshirakawa				
[6]	JUO001	JUO002	JUO003	JUO004	JUO005	JUO006

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources from Hokkaido Island, Japan

JHK01		Asahikawa-Syunkodai, Hokkaido, Japan				
[6]	JHK01-a	JHK01-b	JHK01-c	JHK01-d	JHK01-d	JHK01-f
JHK02		Asahikawa-Higashitaku, Hokkaido, Japan				
[6]	JHK02-a	JHK02-b	JHK02-c	JHK02-d	JHK02-e	JHK02-f
JHK03		Takikawa-Shintotsugawa, Hokkaido, Japan				
[6]	JHK03-a	JHK03-b	JHK03-c	JHK03-d	JHK03-e	JHK03-f
JHK04		Akaigawa, Hokkaido, Japan				
[6]	JHK04-a	JHK04-b	JHK04-c	JHK04-e	JHK04-e	JHK04-f
JHK05		Nayoro, Hokkaido, Japan				
[6]	JHK05-a	JHK05-b	JHK05-c	JHK05-d	JHK05-e	JHK05-f
JHK06		Engaru-Sanabuchi, Hokkaido, Japan				
[6]	JHK06-a	JHK06-b	JHK06-c	JHK06-d	JHK06-e	JHK06-f
JHK07		Oumu, Hokkaido, Japan				
[6]	JHK07-a	JHK07-f	JHK07-c	JHK07-d	JHK07-e	JHK07-f
JHK08		Okushiri, Hokkaido, Japan				
[5]	JHK08-a	JHK08-b	JHK08-c	JHK08-d	JHK08-e	
JHK09		Tokachi-Mitsumata, Hokkaido, Japan				
[6]	JHK09-a	JHK09-b	JHK09-e	JHK09-e	JHK09-e	JHK09-f
JHK10		Tokachi-Shikaribetsu, Hokkaido, Japan				
[6]	JHK10-a	JHK10-b	JHK10-b	JHK10-d	JHK10-e	JHK10-f
JHK11		Ikutahara-1, Hokkaido, Japan				
[6]	JHK11-a	JHK11-b	JHK11-c	JHK11-d	JHK11-e	JHK11-f
JHK12		Ikutahara-2, Hokkaido, Japan				
[4]	JHK12-a	JHK12-b	JHK12-c	JHK12-d		
JHK13		Rubeshibe-Iwayama, Hokkaido, Japan				
[6]	JHK13-a	JHK13-b	JHK13-c	JHK13-d	JHK13-e	JHK13-f
JHK14		Rubeshibe-Kayokozawa, Hokkaido, Japan				
[6]	JHK14-a	JHK14-b	JHK14-c	JHK14-d	JHK14-e	JHK14-f
JHK15		Toyoura, Hokkaido, Japan				
[6]	JHK15-a	JHK15-b	JHK15-c	JHK15-d	JHK15-e	JHK15-f
JHK16		Monbetsu, Hokkaido, Japan				
[4]	JHK16-a	JHK16-b	JHK16-c	JHK16-d		
JHK17		Kushiro-Shitakara, Hokkaido, Japan				
[6]	JHK17-a	JHK17-b	JHK17-c	JHK17-d	JHK17-e	JHK17-f
JHK18		Kushiro-Kutyorogawa, Hokkaido, Japan				
[6]	JHK18-a	JHK18-b	JHK18-c	JHK18-d	JHK18-e	JHK18-f
JHK19		Oketo-Oketoyama, Hokkaido, Japan				
[6]	JHK19-a	JHK19-b	JHK19-c	JHK19-d	JHK19-e	JHK19-f
JHK20		Oketo-Tokoroyama, Hokkaido, Japan				
[6]	JHK20-a	JHK20-b	JHK20-c	JHK20-d	JHK20-e	JHK20-f
JHK21		Oketo-Kitatokoroyama, Hokkaido, Japan				
[6]	JHK21-a	JHK21-b	JHK21-c	JHK21-d	JHK21-e	JHK21-f

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Obsidian Sources from Hokkaido Island, Japan

HI11		Oketo-Oketoyama, Hokkaido, Japan				
[4]	HI1101	HI1102	HI1103	HI1104		
HI12		Oketo-Tokoroyama, Hokkaido, Japan				
[6]	HI1201	HI1202	HI1203	HI1204	HI1205	HI1206
HI13		Oketo-Kunneppu River, Hokkaido, Japan				
[4]	HI1301	HI1302	HI1303	HI1304		
HI14		Oketo-Ogachi, Hokkaido, Japan				
[3]	HI1401	HI1402	HI1403			
HI15		Shirataki (Akaishiyama-1), Hokkaido, Japan				
[4]	HI1501	HI1502	HI1503	HI1504		
HI16		Shirataki (Akaishiyama-2), Hokkaido, Japan				
[4]	HI1601	HI1602	HI1603	HI1604		
HI17		Shirataki (Ajisaitaki outcrop), Hokkaido, Japan				
[3]	HI1701	HI1702	HI1703			
HI18		Shirataki (Horokozawa River), Hokkaido, Japan				
[3]	HI1801	HI1802	HI1803			
HI19		Shirataki (Hachigouzawa), Hokkaido, Japan				
[4]	HI1901	HI1902	HI1903	HI1904		
HALL		Hall-Kumura samples from Oketo & Shirataki				
[9]	Oketo-20	Oketo-25	Oketo-27	Oketo-28		
	Shir2_1	Shir2_2	Shir2_3	Shir3_1	Shir6_1	
MIX		Mixed Ceremonial Samples from Nagano 2011				
[9]	JOR-1	JOO-1	JOSA-1	JOSH-1		

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources in Japan (Island of Kyushu)

KY-01		Sasebo, Hario-Ninzaki				
[9]	KY0101	KY0102	KY0103	KY0104	KY0105	KY0106
	KY0107	KY0108	KY0109			
KY-02		Sasebo, Kurisato				
[22]	KY0201	KY0202	KY0203	KY0204	KY0205	KY0206
	KY0207	KY0208	KY0209	KY0210	KY0211	KY0212
	KY0213	KY0214	KY0215	KY0216	KY0217	KY0218
	KY0219	KY0220	KY0221	KY0222		
KY-03		Sasebo, Nakazatu				
[8]	KY0301	KY0302	KY0303	KY0304	KY0305	KY0306
	KY0307	KY0308				
KY-04		Sasebo, Hagita				
[11]	KY0401	KY0402	KY0403	KY0404	KY0405	KY0406
	KY0407	KY0408	KY0409	KY0410	KY0411	
KY-05		Aso Volcano				
[15]	KY0501	KY0502	KY0503	KY0504	KY0505	KY0506
	KY0507	KY0508	KY0509	KY0510	KY0511	KY0512
	KY0513	KY0514	KY0515			
KY-06		Aso Volcano, Oguni source				
[5]	KY0601	KY0602	KY0603	KY0604	KY0606	
KY-07		Koshidake - Monastery locality				
[9]	KY0701	KY0702	KY0703	KY0704	KY0705	KY0706
	KY0707	KY0709	KY0710			
KY-08		Koshidake, Itanda-tustsumi locality				
[7]	KY0801	KY0802	KY0803	KY0804	KY0805	KY0806
	KY0807					
KY-09		Koshidake, Mori-Nonaka locality				
[6]	KY0901	KY0902	KY0903	KY0904	KY0905	KY0906
KY-10		Koshidake, Suzuoke locality				
[8]	KY1001	KY1002	KY1003	KY1004	KY1005	KY1006
	KY1007	KY1008				

* Indicates sample is an OUTLIER on one or more elements

CHUKOTA**[15]**

KU1037A

KU1038A

KU1039

KU1040B

KU1041A

KU1042

KU1043

KU1044

Chukotka

KU1037B

KU1038B

KU1040C

KU1041B

KU1038C

KU1041C

KU1038D

PAEKTUSAN, NORTH KOREA

Obsidian Sources in Kamchatka

KAM-01		Avacha-1				
[5]	KU0880	KU0881	KU0885	KU0886	KU0895	
KAM-02		Nachaki-2				
[5]	KU0891	KU0892	KU0894	KU0896	KU0897	
KAM-03		Itkavayam				
[3]	KU0542	KU0544	KU0545			
KAM-04		Avacha-2				
[4]	KU0610	KU0611	KU0612	KU0893		
KAM-05 & 16		Payalpan & Nosichan				
[7]	KU0543	KU0605	KU0864	KU1016		
	KU0698	KU0699	KU0749			
KAM-06		Nachiki-1				
[7]	KU0550	KU0551	KU0552	KU0553	KU0554	
	NACH-X1	NACH-X2				
KAM-07		Belogolovaya				
[5]	KU0546	KU0547	KU0548	KU0863	KU0900	
KAM-08		Pahachi				
[3]	KU0344	KU0346	KU0889			
KAM-09		Karymsky Volcano				
[8]	KU0549	KU0697	KU0700	KU0701	KU0702	KU0704
	KU0705	KU0706				
KAM-10		Ushki-1				
[6]	KU0854	KU0856	KU0866	KU0874	KU0875	KU0877
KAM-11		Tolomachev Dol (Chasha Maar)				
[4]	KU0708	KU0709	KU0710	KU0711		
KAM-12		Khangar Volcano				
KAM-13		Bannaya				
KAM-14		Ushki-2				
[2]	KU0795	KU0859				
KAM-15		Ushki-3				
[3]	KU0791	KU0811	KU0823			
KAM-17		Dimshikan				
[4]	KU1033	KU1034	KU1035	KU1036		

* Indicates sample is an OUTLIER on one or more elements

Obsidian Sources on Islands in the Atlantic and Pacific Oceans

NAG		Nagcarlan, Philippines				
[2]	LEE001	LEE002				
TAAL		Taal, Luzon, Philippines				
[1]	LEE567					
TEKTITE		Tektite sample from the Philippines				
[1]	TEK-P1					
WNB-1		West New Britain-1/Garua Island-Baki, Papua New Guinea				
[12]	WNB3538	WNB3539	WNB3540	WNB3541	WNB3542	WNB3543
	WNB3544	WNB3545	WNB3546	WNB3547	WNB3548	WNB3549
WNB-2		West New Britain-2/Gaura Island-Hamilton, Papua New Guinea				
[3]	WNB3550	WNB3555	WNB3556			
WNB-3		West New Britain-3/Williamuaz Peninsula, Papua New Guinea				
[5]	WNB3557	WNB3558	WNB3559	WNB3560	WNB3562	
WNB-4		West New Britain-4/Williamuaz Island-Kutau, Papua New Guinea				
[8]	WNB3563	WNB3564	WNB3565	WNB3566	WNB3567	WNB3568
	WNB3569	WNB3570				
WNB-5		West New Britain-5/Mopir, Papua New Guinea				
[6]	WNB3571	WNB3572	WNB3573	WNB3574	WNB3575	WNB3576
FERG		Fergusson Island, Papua New Guinea				
[1]	WDE001					
MIXED		Robin Torrence mixed sources- Papua New Guinea/New Zealand				
[19]	RTO001	RTO002	RTO003	RTO004	RTO005	RTO006
	RTO007	RTO008	RTO009	RTO010	RTO011	RTO012
	RTO013	RTO014	RTO015	RTO016	RTO017	RTO018
	RTO019					
NZ		New Zealand mixed sources				
[5]	PSP001	PSP002	PSP003	PSP004	WDE008	
VLV		Vanua Lava, Torba Province, Vanuatu				
[4]	ANU9001	ANU9006	ANU9007	ANU9010		
GAUA		Gaua, Torba Province, Vanuatu				
[4]	ANU9015	ANU9016	ANU9027	ANU9028		
EIS		Easter Island				
[13]	EIS001	EIS002	EIS006	EIS019	EIS020	EIS021
	EIS022	EIS023	EIS026	EIS027	EIS029	EIS030
	EIS034					
PWH		PuuWaaWaa, Hawaii				
[10]	PWH001	PWH002	PWH003	PWH004	PWH005	PWH006
	PWH007	PWH008	PWH009	PWH010		

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Obsidian Sources on Islands in the Atlantic and Pacific Oceans

CANARY-1		Canary Islands-1, Spain				
[7]	OBC001	OBC002	OBC003	OBC004	OBC011	OBC014
	OBC015					
CANARY-2		Canary Islands-2, Spain				
[10]	OBC056	OBC057	OBC058	OBC059	OBC060	OBC061
	OBC062	OBC064	OBC065	OBC067		
ICE		Iceland mixed sources				
[3]	AW0811	AW0812	WDE010			
RLS		RL Smith mixed sources				
[55]	RLS001	RLS002	RLS003	RLS004	RLS005	RLS006
	RLS007	RLS008	RLS009	RLS010	RLS011	RLS012
	RLS013	RLS014	RLS015	RLS016	RLS017	RLS018
	RLS019	RLS020	RLS021	RLS022	RLS023	RLS024
	RLS025	RLS026	RLS027	RLS028	RLS029	RLS030
	RLS031	RLS032	RLS033	RLS034	RLS035	RLS036
	RLS037	RLS038	RLS039	RLS040	RLS041	RLS042
	RLS043	RLS044	RLS045	RLS046	RLS047	RLS048
	RLS049	RLS050	RLS051	RLS052	RLS053	RLS054
	RLS055					

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Obsidian Sources in Eastern Europe

VINICKY	Vinicky, SLOVAKIA					
[30]	SV1001	SV1002	SV1003	SV1004	SV1005	SV1006
	SV1007	SV1008	SV1009	SV1010	SV1011	SV1012
	SV1013	SV1014	SV1015	SV1016	SV1017	SV1018
	SV1019	SV1020	SV1021	SV1022	SV1023	SV1024
	SV1025	SV1026	SV1027	SV1028	SV1029	SV1030
CEJKOV	Cejkov, SLOVAKIA					
[12]	SV2001	SV2002	SV2003	SV2004	SV2005	SV2006
	SV2007	SV2008	SV2009	SV2010	SV2011	SV2012
MALRAK	Malyj Rakovets, UKRAINE					
[8]	MR1001	MR1002	MR1003	MR1004	MR1005	MR1006
	MR1007	MR1008				
ROKOSOVO	Rokosovo, UKRAINE					
[3]	ROK001	ROK002	ROK003			
BODROG-T	Bodrogkeresztur-Tufabanya mellett, HUNGARY					
[5]	BT001	BT002	BT003	BT004	BT005	
ERDO-MON	Erdobenyé Mondoha Alatt, HUNGARY					
[10]	EM001	EM002	EM003	EM004	EM005	EM006
	EM007	EM008	EM009	EM010		
MAD-KAK	Mad-kakashegy, HUNGARY					
[10]	MKY001	MKY002	MKY003	MKY004	MKY005	MKY006
	MKY007	MKY008	MKY009	MKY010		
TOK-BOD	Tokaj-Bodrogkeresztur, HUNGARY					
[12]	TB003	TB005	TB006	TB007	TB008	TB009
	TB010	TB011	TB012	TB020	TB021	TB022
TOL-CIR	Tolcsva-Ciroka, HUNGARY					
[20]	TCA001	TCA002	TCA003	TCA004	TCA005	TCA006
	TCA007	TCA008	TCA009	TCA010	TCA011	TCA012
	TCA013	TCA014	TCA015	TCA016	TCA017	TCA018
	TCA019	TCA020				
TOL-NAG	Tolcsva-Nagypatko, HUNGARY					
[5]	TCN001	TCN002	TCN003	TCN004	TCN005	
TOL-RAN	Tolcsva-Ranyi, HUNGARY					
[20]	TCR001	TCR002	TCR003	TCR004	TCR005	TCR006
	TCR007	TCR008	TCR009	TCR010	TCR011	TCR012
	TCR013	TCR014	TCR015	TCR016	TCR017	TCR018
	TCR019	TCR020				

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Obsidian Sources in the Mediterranean

MELOS-A	Melos-A (Sta Nychia), GREECE					
[8]	MIL015	MIL019	OMA012	OMA024	OMA027	OMA028
	OMA030	OMA033				
MELOS-D	Melos-D (Demenegaki), GREECE					
[8]	MIL005	MIL008	OMD014	OMD015	OMD017	OMD022
	OMD035	OMD036				
YIALI	Yiali, GREECE					
[12]	YLT01	YLT02	YLT03	YLT04	YLT05	YLT06
	YLT07	YLT08	YLT09	YLT10		
	YI04	YI05	YI06	YI015a		
LIP-B	Lipari-B, ITALY					
	LIPB01	LIPB02	LIPB03	LIPB04	LIPB05	LIPB06
	LIPB07	LIPB08				
LIP-C	Lipari-C (Cannetto), ITALY					
	LIPC01	LIPC02	LIPC03	LIPC04	LIPC05	LIPC06
	LIPC07	LIPC08	LIPC09	LIPC10	LIPC11	LIPC12
	LIPC13	LIPC14	LIPC15	LIPC16		
PALMAROLA	Palmarola Island, ITALY					
	PALM-01					
SARD-C	Mt. Arci (subsource C), Sardinia, ITALY					
	USF6762					
LIPARI	Lipari Island, ITALY					
[28]	USF1175	USF1200	USF1203	USF1500	USF1504	USF1507
	USF1509	USF1519	USF1537	USF1540	USF1575	USF1594
	USF1602	USF1612	USF1616	USF1621	USF1644	USF1665
	USF1683	USF1707	USF1741	USF1764	USF1772	USF1795
	USF1811	USF1994	USF2001	USF2058		
PALMAROLA	Palmarola Island, ITALY					
[14]	PALM-01	USF4047	USF4165	USF4169	USF4205	USF4216
	USF4240	USF4251	USF4261	USF4282	USF4293	USF4294
	USF4299	USF4301				
PANTELLERIA	Pantelleria Island, ITALY					
[14]	USF2493	USF2553	USF2697	USF2705	USF2728	USF2733
	USF2740	USF2753	USF2765	USF2790	USF2804	USF2808
	USF2816	USF2820				