

## Supplementary Material

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State	Site name	Species	Start date	End date	Latitude (N)	Longitude (W)
WA	HURRRI	ABAM	1698	1983	47.57	123.28
BJ	SPMMEX	ABCO	1650	2010	31	115.33
MB	CHLKLA	LALA	1783	1988	58.4	93.29
AB	PEYTOL	PCEN	1635	1983	51.45	116.13
AB	SUNWAP	PCEN	1608	1983	52.15	117
BC	BELLMT	PCEN	1649	1983	53.2	120.4
BC	KOOTPA	PCEN	1701	1983	49.5	116.45
BC	VERMPA	PCEN	1686	1983	51.1	116.1
CO	COTTWO	PCEN	1565	1982	38.4	107.35
CO	FOOLCR	PCEN	1297	1993	39.52	105.52
CO	PIKEPE	PCEN	1530	1983	39.2	105.2
CO	REDMTP	PCEN	1626	1983	37.54	107.43
ID	GALENA	PCEN	1530	1983	43.52	114.43
ID	SLEEPD	PCEN	1489	1997	44.37	114.3
MT	HIGHFI	PCEN	1496	1983	45.45	112.3
UT	CEDARB	PCEN	1581	1983	37.35	113.51
UT	HIDPEA	PCEN	1511	1983	40.34	111.38
WY	GRANPA	PCEN	1508	1983	44.47	107.52
WY	MEDBOW	PCEN	1401	1983	41.18	107.42
WY	POWDRP	PCEN	1496	1983	44.09	107.03
WY	SHEEPT	PCEN	1484	2000	41.22	106.14
WY	SYLVAN	PCEN	1388	1983	44.22	110.08
WY	TOGWAT	PCEN	1672	1983	43.43	110.03
AK	DENALI	PCGL	1551	1983	63.4	149.35
AK	EUREKA	PCGL	1654	1983	61.5	147.2
AK	GLENNH	PCGL	1770	1983	61.2	149.35
AK	MTBILM	PCGL	1792	1983	61.2	145.15
AK	NORJUN	PCGL	1795	1983	62.5	141.2
AK	SLANAB	PCGL	1696	1983	62.5	143.55
AK	WILISL	PCGL	1769	1983	64.5	148.1
BC	PIPASS	PCGL	1697	1983	55.3	122.4
BC	SMITSA	PCGL	1680	1983	54.54	127.15
BC	SUMMLA	PCGL	1770	1983	58.4	124.4
MB	BRUNLK	PCGL	1822	1988	51.37	95.5
MB	CHURCH	PCGL	1695	1988	58.4	93.5

NF	DOROLK	PCGL	1790	1988	54.12	61.34
NF	MTLKPL	PCGL	1709	1988	53.29	58.4
NT	AUSTLK	PCGL	1818	1988	62.1	110.05
NT	BRASDO	PCGL	1759	1988	62.27	116.08
NT	FTPPOV	PCGL	1829	1988	61.1	117.22
NT	FTSIMP	PCGL	1807	1988	61.41	120.43
NT	PETHAI	PCGL	1610	1988	62.41	110.58
QB	WAKUPC	PCGL	1695	1988	55.17	67.07
YK	CAMDOL	PCGL	1175	1992	68.16	133.2
YK	DONJEK	PCGL	1585	1983	61.4	139.4
YK	KATHLK	PCGL	1756	1983	60.25	137.1
YK	WATSLK	PCGL	1743	1983	60.95	128.5
MB	GUNISA	PCMA	1819	1998	53.3	96.23
NT	CHARLK	PCMA	1768	1988	60.02	100.26
QB	BONIFB	PCMA	1352	1989	55.2	77.5
QB	CAMOTI	PCMA	1719	1988	50.1	68.1
QB	CAMOTN	PCMA	1732	1988	50.1	68.1
QB	COATFU	PCMA	1777	1988	55.44	76.09
QB	COATSR	PCMA	1786	1988	55.44	76.09
QB	EASTMA	PCMA	1795	1988	52.02	77.51
QB	EASTTR	PCMA	1739	1988	52.02	77.51
QB	LACCHV	PCMA	1797	1988	50.01	74.27
QB	LACNAT	PCMA	1743	1988	57.13	71.3
QB	LACNTR	PCMA	1852	1988	57.13	71.3
QB	LACPER	PCMA	1826	1988	50.02	71.29
QB	LACROM	PCMA	1821	1988	56.14	67.43
QB	LROMFU	PCMA	1659	1988	56.14	67.43
QB	NONMFU	PCMA	1743	1988	54.35	77.34
QB	NONMTR	PCMA	1748	1988	54.35	77.34
QB	WAKUAC	PCMA	1841	1988	55.17	67.07
QB	YASLFU	PCMA	1847	1988	53.14	77.4
QB	YASLTR	PCMA	1861	1988	53.14	77.4
SA	ESKERS	PCMA	1864	1988	57.42	105.16
AK	MOOSEP	PCSI	1664	1983	60.3	149.3
BC	CHILKA	PCSI	1732	1983	59.55	136.5
BC	NINGUN	PCSI	1686	1983	56.55	130.5
OK	MCCURT	PIEC	1686	1982	34.18	94.39
AR	CCWUSA	PIEC	1672	1980	36.04	92.15
GA	CLEUSA	PIEC	1684	1973	34.7	82.87
AR	ECHUSA	PIEC	1788	1980	36.2	92.36
MO	ECKUSA	PIEC	1704	1991	37.58	92.02

AR	LAWUSA	PIEC	1667	1980	34.48	92.56
TN	LYNUSA	PIEC	1683	1996	35.63	83.93
TN	RCWUSA	PIEC	1800	1994	35.52	83.97
MO	SHNUSA	PIEC	1778	1992	37.02	92.03
OK	SLBUSA	PIEC	1781	2008	35.42	95.79
ON	ARMSTR	PIGL	1834	1988	50.18	89.03
CO	MOTMEX	PIGR	1890	2013	25.21	100.53
BJ	SPMMEX	PIJE	1450	2010	31	115.33
BJ	SPMMEX	PILA	1576	2010	31	115.33
CH	RANMEX	PIMZ	1865	2006	16.24	92.03
TA	RDCMEX	PIMZ	1772	1995	23.06	99.14
AZ	AWHMEX	PIPO	1598	2008	35.4	113.53
AZ	FTVMEX	PIPO	1815	2008	35.16	111.45
AZ	GMPMEX	PIPO	1655	2008	34.15	105.48
AZ	RMPMEX	PIPO	1576	2010	31.6	109.2
AZ	WMPMEX	PIPO	1528	2010	35.1	111.31
CA	MNTHAM	PIPO	1780	2010	37.2	121.38
CO	ELDORA	PIPO	1716	1982	39.57	105.33
CO	SFKMEX	PIPO	1566	2008	37.4	106.4
CO	VPUMEX	PIPO	1661	2008	37.28	106.18
DU	CGDMEX	PIPO	1675	1993	25.04	106.18
NM	FCUMEX	PIPO	1306	2008	32.2	106.34
NM	GPUMEX	PIPO	1879	2008	36.22	105.24
NM	RPUMEX	PIPO	1541	2008	36.1	105.36
NM	TSMEX	PIPO	1595	2008	35.24	108.32
NM	WPMEX	PIPO	1597	2008	33.24	108.13
ND	BCVEIN	PIPO	1592	1990	43.46	102.58
WY	TEAPOT	PIPO	1568	1979	43.23	106.31
AZ	BEPMEX	PIPO	1837	2009	32.23	110.41
NM	BPMEX	PIPO	1493	2008	33.21	108.16
AZ	BRPMEX	PIPO	1656	2008	33.48	109.19
AZ	DCMMEX	PSME	1652	2008	32.38	110.18
AZ	FLMMEX	PSME	1628	2008	31.44	110.5
AZ	FSMMEX	PSME	1490	2008	31.43	110.5
AZ	GMMEX	PSME	1616	2008	34.15	105.48
AZ	LBMEX	PSME	1626	2008	32.37	109.49
AZ	OSMMEX	PSME	1608	2010	31.55	109.16
AZ	PRMMEX	PSME	1605	2008	32.35	110.17
AZ	PTHMEX	PSME	1797	2008	35.05	113.54
AZ	RCMMEX	PSME	1618	2010	31.6	109.2
AZ	RPMEX	PSME	1591	2008	32.08	110.31

AZ	SCMMEX	PSME	1536	2009	32.27	110.47
AZ	SLCMEX	PSME	1630	2009	31.28	110.21
AZ	TCMMEX	PSME	870	2008	36.41	110.32
AZ	WKMMEX	PSME	1458	2008	33.6	109.23
AZ	WMFMEX	PSME	1645	2010	35.1	111.31
AZ	WPUMEX	PSME	1464	2008	32.43	109.55
BC	BEARLA	PSME	1773	1983	54.3	122.3
BC	SPRILA	PSME	1669	1983	51.53	121.15
CH	CACMEX	PSME	1880	2010	28.01	107.49
CH	CASMEX	PSME	850	2008	30.24	108.24
CH	CDOMEX	PSME	1669	2002	28.07	107.57
CH	CIAMEX	PSME	1644	1993	27.42	107.37
CH	LARMEX	PSME	1774	2010	29.19	108.13
CH	LJAMEX	PSME	1715	2010	28.05	107.52
CH	MADMEX	PSME	1774	2001	29.18	108.12
CH	MDGMEX	PSME	1636	2002	30.33	108.37
CH	MOHMEX	PSME	1657	2005	25.56	107.1
CH	TABMEX	PSME	1583	1993	28.2	108
CH	TUTMEX	PSME	1534	2012	28.37	108.16
CO	MORMEX	PSME	1855	2000	25.12	100.21
CO	MVMMEX	PSME	480	2008	37.1	108.31
CO	PILMEX	PSME	1775	2000	25.16	100.3
CO	SLMMEX	PSME	1780	2003	27.02	102.21
CO	TARMEX	PSME	1872	2000	25.26	100.33
DU	BRIMEX	PSME	1650	2004	23.4	105.26
DU	CBAMEX	PSME	1436	2006	26.22	106.05
DU	CHIMEX	PSME	1418	2005	26.11	106.21
DU	CHUMEX	PSME	1552	2006	24.05	105.44
DU	CUCMEX	PSME	1863	2012	23.3	104.32
DU	CVSMEX	PSME	1651	1993	25.09	106.23
DU	PITMEX	PSME	1693	2003	25.34	105.57
DU	PUEMEX	PSME	1573	2007	24.19	105.55
DU	RBMEX	PSME	1835	2009	23.24	104.06
DU	SALMEX	PSME	1481	1993	23.45	105.45
DU	SNAMEX	PSME	1875	2012	23.32	105.02
DU	TAHMEX	PSME	1724	2003	25.34	106.2
HI	JARMEX	PSME	1905	2001	20.12	98.43
NL	PENMEX	PSME	1450	2013	23.49	99.5
NL	POTMEX	PSME	1845	1995	24.5	100.04
NM	DCUMEX	PSME	1610	2008	36.6	107.48
NM	EAMMEX	PSME	1295	2008	36.21	106.32

NM	ELMALP	PSME	590	2004	34.58	108.06
NM	EPMMEX	PSME	1801	2009	32.55	107.46
NM	FMMMEX	PSME	1591	2009	34.37	108.42
NM	LSMMEX	PSME	1738	2009	33.44	108.57
NM	MALMEX	PSME	-136	2004	34.57	108.07
NM	MMMEX	PSME	622	2008	33.59	107.1
NM	ORMMEX	PSME	1597	2009	32.21	106.34
NM	PCMMEX	PSME	1643	2009	36.42	107.19
NM	SANDIA	PSME	1735	1983	35.15	107.3
NM	SANMEX	PSME	925	1995	35.17	106.28
NM	SIEBLA	PSME	1554	1983	33.2	105.4
NM	SMTMEX	PSME	911	2008	33.43	107.27
NM	SPMMEX	PSME	1313	2008	35.36	108.08
NM	SSMMEX	PSME	1627	2008	32.48	105.48
NM	SUNSPT	PSME	1628	1992	32.48	105.48
NM	WFMEX	PSME	1669	2008	33.24	108.13
OA	CLPMEX	PSME	1561	2000	17.1	96.38
OA	ORCMEX	PSME	1774	2000	17.11	96.37
OR	BARLOW	PSME	1504	1983	45.19	121.39
PU	CUAMEX	PSME	1474	2004	19.1	97.19
PU	LIBMEX	PSME	1902	2010	19.31	97.47
PU	PANMEX	PSME	1656	2010	19.8	97.19
TL	LCAMEX	PSME	1719	2007	19.32	97.55
TL	VILMEX	PSME	1710	1998	19.32	97.47
TX	BIGBEN	PSME	1473	1992	29.15	103.18
TX	GPMEX	PSME	1362	2008	31.54	104.5
TX	GUADMT	PSME	1537	1992	31.54	104.51
UT	WCMEX	PSME	1347	2009	37.37	109.6
VE	MALMEX	PSME	1726	1998	20.24	98.28
MT	CWRUSA	PSME	1329	2002	47.05	110.23
CO	MANUSA	PSME	722	2011	37.16	108.21
QT	AMOMEX	PSME	1731	1998	20.1	99.42
DU	ANDMEX	PSME	1709	2004	25.25	105.32
DU	AVEMEX	PSME	1770	2008	25.03	106.04
DU	BARLAM	PSME	1376	1993	26.24	106.05
CL	BATMXP	PSME	1780	1999	25.16	100.29
AZ	BEAMEX	PSME	1698	2009	32.23	110.41
NM	BFMMEX	PSME	1304	2008	33.21	108.16
TL	BPZMEX	PSME	1690	2009	19.33	97.54
DU	BRIMEX	PSME	1650	2004	23.4	105.26
AZ	BRMMEX	PSME	1565	2008	33.48	109.19

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TX	BRAZOS	QUST	1668	1995	30.56	96.48
TX	COLETO	QUST	1682	1995	28.46	97.11
TX	LAVACA	QUST	1668	1995	29.18	96.58
TX	MASOMT	QUST	1677	1995	30.53	99.11
TX	NICHRA	QUST	1681	1995	32.59	99.11
TX	YEGUAC	QUST	1658	1995	30.19	96.38
FL	CHOCTA	TADI	899	1988	30.28	85.53
FL	LPRUSA	TADI	1272	2013	27.08	81.89
FL	MIWITH	TADI	1516	2003	28.55	82.16
FL	UPWITH	TADI	1622	2005	28.18	82.05
MS	PASCAG	TADI	1094	1992	30.35	88.01
NC	BLKRIV	TADI	365	1985	34.19	78.13
SC	BLKRSC	TADI	549	1993	33.29	79.31
TX	PETRBO	TADI	1254	1993	30.24	94.04
VA	NOTTAW	TADI	1171	1984	36.47	77.08
GA	ALTUSA	TADI	929	1985	31.72	81.83
LA	BIGUSA	TADI	997	1988	32.25	92.97
VA	BWRUSA	TADI	932	1985	36.82	76.87
GA	EBEUSA	TADI	989	1985	32.38	81.2
SC	FHSUSA	TADI	1001	1985	33.18	80.42
TX	GRPTEX	TADI	1497	2009	29.87	98.5
NC	GUTUSA	TADI	780	1993	35.83	76.93
FL	PEAUSA	TADI	1084	2010	27.86	81.81
TX	SBPUSA	TADI	1448	2008	29.43	96.01
SL	VERMEX	TAMU	1574	1996	21.41	99.47
TA	SABMEX	TAMU	1474	1995	23.09	99.09
NC	GRANMT	TSCA	1625	1983	36.04	81.49
BC	VANCCY	TSME	1413	1983	49.25	123.5
OR	CRLKNE	TSME	1564	1983	42.58	122.1