

SUPPLEMENTARY INFORMATION

Data Table 1 | Mountain summits used in the analyses with resurvey dates and references. Details on references are listed below the table.

Mountain name	Region	Year	Reference	Contact for data access
Buhaiescu	SE Carpathians	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Buhaiescu	SE Carpathians	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Golgota	SE Carpathians	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Golgota	SE Carpathians	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Gropile	SE Carpathians	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Gropile	SE Carpathians	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Negoiu	SE Carpathians	1937	Pawlowski (1939)	wipf@slf.ch
Negoiu	SE Carpathians	2014	Rixen & Wipf (unpublished data)	wipf@slf.ch
Rebra	SE Carpathians	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Rebra	SE Carpathians	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Vârful Bucura	SE Carpathians	1937	Pawlowski (1939)	wipf@slf.ch
Vârful Bucura	SE Carpathians	2014	Rixen & Wipf (unpublished data)	wipf@slf.ch
Vârful Custura	SE Carpathians	1937	Pawlowski (1939)	wipf@slf.ch
Vârful Custura	SE Carpathians	2014	Rixen & Wipf (unpublished data)	wipf@slf.ch
Vârful Parângul Mare	SE Carpathians	1937	Pawlowski (1939)	wipf@slf.ch
Vârful Parângul Mare	SE Carpathians	2014	Rixen & Wipf (unpublished data)	wipf@slf.ch
Vârful Peleaga	SE Carpathians	1937	Pawlowski (1939)	wipf@slf.ch
Vârful Peleaga	SE Carpathians	2014	Rixen & Wipf (unpublished data)	wipf@slf.ch
Älplihorn Monstein	Eastern Alps	1894	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Älplihorn Monstein	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Aroser Älplihorn	Eastern Alps	1910	Braun (1913)	wipf@slf.ch
Aroser Älplihorn	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Aroser Rothorn	Eastern Alps	1910	Braun (1913)	wipf@slf.ch
Aroser Rothorn	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Augstenhürel	Eastern Alps	1918	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Augstenhürel	Eastern Alps	2013	Wipf et al. (unpublished data)	wipf@slf.ch
Baslersch Chopf	Eastern Alps	1916	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Baslersch Chopf	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Börterhorn	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Börterhorn	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Büelenhorn	Eastern Alps	1918	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Büelenhorn	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Casanna	Eastern Alps	1920	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Casanna	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Chlein Schwarzhorn	Eastern Alps	1917	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Chlein Schwarzhorn	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Chlein Schwarzhorn	Eastern Alps	2013	Wipf et al. (unpublished data)	wipf@slf.ch
Chlin Horn	Eastern Alps	1901	Braun (1913)	wipf@slf.ch
Chlin Horn	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Chörbsch Horn	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Chörbsch Horn	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Chrachenhorn	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Chrachenhorn	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Chummerhürel	Eastern Alps	1916	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Chummerhürel	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch

Chüpfenflue	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Chüpfenflue	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Da Wöllane	Eastern Alps	2003	Erschbamer et al. (2006)	Brigitta.Erschbamer@uibk.ac.at
Da Wöllane	Eastern Alps	2011	Erschbamer et al. (2011)	Brigitta.Erschbamer@uibk.ac.at
Do Peniola	Eastern Alps	2001	Pauli et al. (2012); Erschbamer et al. (2003)	harald.pauli@oeaw.ac.at
Do Peniola	Eastern Alps	2008	Pauli et al. (2012); Mallaun et al. (2013)	harald.pauli@oeaw.ac.at
Faglmugl	Eastern Alps	2003	Erschbamer et al. (2006)	Brigitta.Erschbamer@uibk.ac.at
Faglmugl	Eastern Alps	2011	Erschbamer et al. (2011)	Brigitta.Erschbamer@uibk.ac.at
Festkogel	Eastern Alps	1953	Reisigl & Pitschmann (1958)	harald.pauli@oeaw.ac.at
Festkogel	Eastern Alps	1992	Grabherr et al. (1994)	harald.pauli@oeaw.ac.at
Festkogel	Eastern Alps	2014	Pauli et al. (unpublished data)	harald.pauli@oeaw.ac.at
Flüela Wisshorn	Eastern Alps	1917	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Flüela Wisshorn	Eastern Alps	2012	Wipf et al. (unpublished data)	wipf@slf.ch
G´hacktkogel	Eastern Alps	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
G´hacktkogel	Eastern Alps	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Gletscher Ducan	Eastern Alps	1894	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Gletscher Ducan	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Gorihorn	Eastern Alps	1895	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Gorihorn	Eastern Alps	1992	Grabherr et al. (1994)	wipf@slf.ch
Gorihorn	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Grasmugl	Eastern Alps	2001	Pauli et al. (2012); Erschbamer et al. (2003)	harald.pauli@oeaw.ac.at
Grasmugl	Eastern Alps	2008	Pauli et al. (2012); Mallaun et al. (2013)	harald.pauli@oeaw.ac.at
Gretji	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Gretji	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Gross Schiahorn	Eastern Alps	1920	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Gross Schiahorn	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Grosshorn	Eastern Alps	1901	Braun (1913)	wipf@slf.ch
Grosshorn	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Hinterer Seelenkogel	Eastern Alps	1953	Reisigl & Pitschmann (1958)	harald.pauli@oeaw.ac.at
Hinterer Seelenkogel	Eastern Alps	1992	Grabherr et al. (1994)	harald.pauli@oeaw.ac.at
Hinterer Seelenkogel	Eastern Alps	2014	Pauli et al. (unpublished data)	harald.pauli@oeaw.ac.at
Hinterer Spiegelkogel	Eastern Alps	1953	Reisigl & Pitschmann (1958)	harald.pauli@oeaw.ac.at
Hinterer Spiegelkogel	Eastern Alps	1992	Grabherr et al. (1994)	harald.pauli@oeaw.ac.at
Hinterer Spiegelkogel	Eastern Alps	2014	Pauli et al. (unpublished data)	harald.pauli@oeaw.ac.at
Hürel Avers	Eastern Alps	1910	Braun (1913)	wipf@slf.ch
Hürel Avers	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Igl Compass	Eastern Alps	1993	Grabherr et al. (1994)	wipf@slf.ch
Igl Compass	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Jatzhorn	Eastern Alps	1895	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Jatzhorn	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Kaserwartl	Eastern Alps	2003	Erschbamer et al. (2006)	Brigitta.Erschbamer@uibk.ac.at
Kaserwartl	Eastern Alps	2011	Erschbamer et al. (2011)	Brigitta.Erschbamer@uibk.ac.at
Las Sours	Eastern Alps	1910	Rübel (1912)	wipf@slf.ch
Las Sours	Eastern Alps	1985	Hofer (1992)	wipf@slf.ch
Las Sours	Eastern Alps	2003	Walther et al. (2005)	wipf@slf.ch
Las Sours	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Leidbachhorn	Eastern Alps	1917	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Leidbachhorn	Eastern Alps	2016	Wipf et al. (unpublished data)	wipf@slf.ch
Lenzer Horn	Eastern Alps	1902	Braun (1913)	wipf@slf.ch
Lenzer Horn	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch

Mederger Flue	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Mederger Flue	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Minschuns	Eastern Alps	2002	Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Minschuns	Eastern Alps	2010	Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Minschuns	Eastern Alps	2015	Wipf (2016)	harald.pauli@oeaw.ac.at
Mittler Wissberg	Eastern Alps	1910	Braun (1913)	wipf@slf.ch
Mittler Wissberg	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Monte Garone	Eastern Alps	1905	Braun (1913)	wipf@slf.ch
Monte Garone	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Monte Schutto	Eastern Alps	2001	Pauli et al. (2012); Erschbamer et al. (2003)	harald.pauli@oeaw.ac.at
Monte Schutto	Eastern Alps	2008	Pauli et al. (2012); Mallaun et al. (2013)	harald.pauli@oeaw.ac.at
Monte Vago	Eastern Alps	1905	Braun (1913)	wipf@slf.ch
Monte Vago	Eastern Alps	1992	Grabherr et al. (1994)	wipf@slf.ch
Monte Vago	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Monte Vago	Eastern Alps	2014	Wipf et al. (unpublished data)	wipf@slf.ch
Mot dal Gajer	Eastern Alps	2002	Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Mot dal Gajer	Eastern Alps	2010	Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Mot dal Gajer	Eastern Alps	2015	Wipf (2016)	harald.pauli@oeaw.ac.at
Mot dal Gajer	Eastern Alps	1918	Braun-Blanquet (1958)	wipf@slf.ch
Mot dal Gajer	Eastern Alps	2002	Camenisch (unpublished data)	wipf@slf.ch
Mot dal Gajer	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Mot sper Chamana Sesvenna	Eastern Alps	2003	Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Mot sper Chamana Sesvenna	Eastern Alps	2010	Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Mot sper Chamana Sesvenna	Eastern Alps	2015	Wipf (2016)	harald.pauli@oeaw.ac.at
Muchetta	Eastern Alps	1916	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Muchetta	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Munt Buffalora	Eastern Alps	2003	Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Munt Buffalora	Eastern Alps	2009	Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Munt Buffalora	Eastern Alps	2015	Wipf (2016)	harald.pauli@oeaw.ac.at
Munt Chavagl	Eastern Alps	2002	Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Munt Chavagl	Eastern Alps	2009	Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Munt Chavagl	Eastern Alps	2015	Wipf (2016)	harald.pauli@oeaw.ac.at
Munt Pers	Eastern Alps	1906	Rübel (1912)	wipf@slf.ch
Munt Pers	Eastern Alps	1983	Hofer (1992)	wipf@slf.ch
Munt Pers	Eastern Alps	1992	Grabherr et al. (1994)	wipf@slf.ch
Munt Pers	Eastern Alps	2003	Walther et al. (2005)	wipf@slf.ch
Munt Pers	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Napfspitze	Eastern Alps	1911	Klebelberg (1913)	harald.pauli@oeaw.ac.at
Napfspitze	Eastern Alps	1992	Grabherr et al. (1994)	harald.pauli@oeaw.ac.at
Napfspitze	Eastern Alps	2014	Pauli et al. (unpublished data)	harald.pauli@oeaw.ac.at
P. 3024 near Silvrettahorn	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
P. 3024 near Silvrettahorn	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Parpaner Rothorn	Eastern Alps	1911	Braun (1913)	wipf@slf.ch
Parpaner Rothorn	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Pischahorn	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Pischahorn	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Piz Alv	Eastern Alps	1905	Rübel (1912)	wipf@slf.ch
Piz Alv	Eastern Alps	1983	Hofer (1992)	wipf@slf.ch
Piz Alv	Eastern Alps	2003	Walther et al. (2005); Vittoz et al. (2009)	wipf@slf.ch
Piz Alv	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Piz Blaisun	Eastern Alps	1911	Braun (1913)	wipf@slf.ch
Piz Blaisun	Eastern Alps	1993	Grabherr et al. (1994)	wipf@slf.ch
Piz Blaisun	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Piz Calderas	Eastern Alps	1911	Braun (1913)	wipf@slf.ch

Piz Calderas	Eastern Alps	2003 Vittoz et al. (2009)	pascal.vittoz@unil.ch
Piz Calderas	Eastern Alps	2011 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Chalchagn	Eastern Alps	1907 Rübel (1912)	wipf@slf.ch
Piz Chalchagn	Eastern Alps	2003 Vittoz et al. (2009)	pascal.vittoz@unil.ch
Piz Chalchagn	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Chatscheders	Eastern Alps	1907 Braun (1913)	wipf@slf.ch
Piz Chatscheders	Eastern Alps	1985 Hofer (1992)	wipf@slf.ch
Piz Chatscheders	Eastern Alps	2003 Walther et al. (2005)	wipf@slf.ch
Piz Chatscheders	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz d' Agnel	Eastern Alps	1911 Braun (1913)	wipf@slf.ch
Piz d' Agnel	Eastern Alps	2003 Vittoz et al. (2009)	pascal.vittoz@unil.ch
Piz d' Agnel	Eastern Alps	2011 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Daint	Eastern Alps	1920 Braun-Blanquet (1958)	wipf@slf.ch
Piz Daint	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz dal Botsch	Eastern Alps	1918 Braun-Blanquet (1958)	wipf@slf.ch
Piz dal Botsch	Eastern Alps	2003 Camenisch (unpublished data)	wipf@slf.ch
Piz dal Botsch	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz dal Fuorn	Eastern Alps	1918 Braun-Blanquet (1958)	wipf@slf.ch
Piz dal Fuorn	Eastern Alps	2012 Wipf et al. (unpublished data)	wipf@slf.ch
Piz dals Lejs	Eastern Alps	1905 Rübel (1912), Braun (1913)	wipf@slf.ch
Piz dals Lejs	Eastern Alps	1986 Hofer (1992)	wipf@slf.ch
Piz dals Lejs	Eastern Alps	1992 Grabherr et al. (1994)	wipf@slf.ch
Piz dals Lejs	Eastern Alps	2003 Walther et al. (2005)	wipf@slf.ch
Piz dals Lejs	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz dals Lejs	Eastern Alps	2014 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Foraz	Eastern Alps	2002 Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Piz Foraz	Eastern Alps	2009 Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Piz Foraz	Eastern Alps	2015 Wipf (2016)	harald.pauli@oeaw.ac.at
Piz Foraz	Eastern Alps	1921 Braun-Blanquet (1958)	wipf@slf.ch
Piz Foraz	Eastern Alps	1993 Grabherr et al. (1994)	wipf@slf.ch
Piz Foraz	Eastern Alps	2002 Camenisch (2002)	wipf@slf.ch
Piz Foraz	Eastern Alps	2011 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Forun	Eastern Alps	1903 Braun (1913)	wipf@slf.ch
Piz Forun	Eastern Alps	1992 Grabherr et al. (1994)	wipf@slf.ch
Piz Forun	Eastern Alps	2011 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Julier	Eastern Alps	1900 Braun (1913)	wipf@slf.ch
Piz Julier	Eastern Alps	1992 Grabherr et al. (1994)	wipf@slf.ch
Piz Julier	Eastern Alps	2011 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Kesch	Eastern Alps	Braun 1913, Schibler, W. (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Piz Kesch	Eastern Alps	1992 Grabherr et al. (1994)	wipf@slf.ch
Piz Kesch	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz la Stretta	Eastern Alps	1907 Rübel (1912), Braun (1913)	
Piz la Stretta	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz la Stretta	Eastern Alps	1992 Grabherr et al. (1994)	wipf@slf.ch
Piz Lagalb	Eastern Alps	1909 Rübel (1912), Braun (1913)	wipf@slf.ch
Piz Lagalb	Eastern Alps	1985 Hofer (1992)	wipf@slf.ch
Piz Lagalb	Eastern Alps	2003 Walther et al. (2005)	wipf@slf.ch
Piz Lagalb	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Lagalb	Eastern Alps	2014 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Languard	Eastern Alps	1905 Braun (1913), Braun-Blanquet (1955)	wipf@slf.ch
Piz Languard	Eastern Alps	2011 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Laschadurella	Eastern Alps	1919 Braun-Blanquet (1958)	wipf@slf.ch
Piz Laschadurella	Eastern Alps	1992 Grabherr et al. (1994)	wipf@slf.ch
Piz Laschadurella	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Linard	Eastern Alps	1911 Braun-Blanquet (1957)	wipf@slf.ch
Piz Linard	Eastern Alps	1937 Braun-Blanquet (1957)	wipf@slf.ch
Piz Linard	Eastern Alps	1947 Braun-Blanquet (1957)	wipf@slf.ch
Piz Linard	Eastern Alps	1992 Grabherr et al. (1994):	wipf@slf.ch
Piz Linard	Eastern Alps	2003 Pauli et al. (2013), Wipf et al. (2013)	wipf@slf.ch
Piz Linard	Eastern Alps	2011 Wipf et al. (2013)	wipf@slf.ch

Piz Lischana	Eastern Alps	1871 Killias (1872)	wipf@slf.ch
Piz Lischana	Eastern Alps	2011 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Mezdi	Eastern Alps	1907 Rübel (1912)	wipf@slf.ch
Piz Mezdi	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Minor	Eastern Alps	1907 Rübel (1912)	wipf@slf.ch
Piz Minor	Eastern Alps	1986 Hofer (1992)	wipf@slf.ch
Piz Minor	Eastern Alps	2003 Walther et al. (2005)	wipf@slf.ch
Piz Minor	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Minor	Eastern Alps	2014 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Murter	Eastern Alps	1920 Braun-Blanquet (1958)	wipf@slf.ch
Piz Murter	Eastern Alps	2002 Camenisch (2002)	wipf@slf.ch
Piz Murter	Eastern Alps	2015 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Murter	Eastern Alps	2002 Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Piz Murtèr	Eastern Alps	2009 Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Piz Murtèr	Eastern Alps	2015 Wipf (2016)	harald.pauli@oeaw.ac.at
Piz Nair	Eastern Alps	1918 Braun-Blanquet (1958)	wipf@slf.ch
Piz Nair	Eastern Alps	1993 Grabherr et al. (1994)	wipf@slf.ch
Piz Nair	Eastern Alps	2012 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Nuna	Eastern Alps	1919 Braun-Blanquet (1958)	wipf@slf.ch
Piz Nuna	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Nuna	Eastern Alps	1992 Grabherr et al. (1994):	wipf@slf.ch
Piz Ot	Eastern Alps	1910 Braun (1913)	wipf@slf.ch
Piz Ot	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Padella	Eastern Alps	1911 Rübel (1912)	wipf@slf.ch
Piz Padella	Eastern Alps	2003 Vittoz et al. (2009)	pascal.vittoz@unil.ch
Piz Padella	Eastern Alps	2011 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Plazèr	Eastern Alps	2002 Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Piz Plazèr	Eastern Alps	2010 Scheurer et al. (2014), Wipf (2016)	harald.pauli@oeaw.ac.at
Piz Plazèr	Eastern Alps	2015 Wipf (2016)	harald.pauli@oeaw.ac.at
Piz Plazèr	Eastern Alps	1918 Braun-Blanquet (1958)	wipf@slf.ch
Piz Plazèr	Eastern Alps	2002 Camenisch (2002)	wipf@slf.ch
Piz Plazèr	Eastern Alps	1992 Grabherr et al. (1994)	wipf@slf.ch
Piz Plazèr	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Plazèr	Eastern Alps	2015 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Sesvenna	Eastern Alps	1918 Braun-Blanquet (1958)	wipf@slf.ch
Piz Sesvenna	Eastern Alps	1992 Grabherr et al. (1994)	wipf@slf.ch
Piz Sesvenna	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Surlej	Eastern Alps	1911 Rübel (1912)	wipf@slf.ch
Piz Surlej	Eastern Alps	1986 Hofer (1992)	wipf@slf.ch
Piz Surlej	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Tasna	Eastern Alps	1911 Braun (1913)	wipf@slf.ch
Piz Tasna	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Tavrü	Eastern Alps	1927 Braun-Blanquet (1958)	wipf@slf.ch
Piz Tavrü	Eastern Alps	1993 Grabherr et al. (1994)	wipf@slf.ch
Piz Tavrü	Eastern Alps	2012 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Trovat	Eastern Alps	1907 Rübel (1912)	wipf@slf.ch
Piz Trovat	Eastern Alps	1983 Hofer (1992)	wipf@slf.ch
Piz Trovat	Eastern Alps	1992 Grabherr et al. (1994)	wipf@slf.ch
Piz Trovat	Eastern Alps	2003 Walther et al. (2005)	wipf@slf.ch
Piz Trovat	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Tschüffer ca	Eastern Alps	1911 Rübel (1912)	wipf@slf.ch
Piz Tschüffer ca	Eastern Alps	1983 Hofer (1992)	wipf@slf.ch
Piz Tschüffer ca	Eastern Alps	2003 Walther et al. (2005)	wipf@slf.ch
Piz Tschüffer ca	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Tschüffer si	Eastern Alps	1911 Rübel (1912)	wipf@slf.ch
Piz Tschüffer si	Eastern Alps	2010 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Üertsch	Eastern Alps	1911 Braun (1913)	wipf@slf.ch
Piz Üertsch	Eastern Alps	2011 Wipf et al. (unpublished data)	wipf@slf.ch
Piz Vadret da Prünas	Eastern Alps	1909 Rübel (1912)	wipf@slf.ch
Piz Vadret da Prünas	Eastern Alps	1983 Hofer (1992)	wipf@slf.ch
Piz Vadret da Prünas	Eastern Alps	2011 Wipf et al. (unpublished data)	wipf@slf.ch

Radüner Rothorn	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Radüner Rothorn	Eastern Alps	1992	Grabherr et al. (1994)	wipf@slf.ch
Radüner Rothorn	Eastern Alps	2003	Vittoz et al. (2009)	pascal.vittoz@unil.ch
Radüner Rothorn	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Radüner Rothorn	Eastern Alps	2014	Wipf et al. (unpublished data)	wipf@slf.ch
Ragnaroeck	Eastern Alps	2001	Pauli et al. (2012); Erschbamer et al. (2003)	harald.pauli@oeaw.ac.at
Ragnaroeck	Eastern Alps	2008	Pauli et al. (2012); Mallaun et al. (2013)	harald.pauli@oeaw.ac.at
Sandhubel	Eastern Alps	1912	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Sandhubel	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Sass Queder	Eastern Alps	1907	Rübel (1912)	wipf@slf.ch
Sass Queder	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Sassal Masone	Eastern Alps	1905	Braun (1913)	wipf@slf.ch
Sassal Masone	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Sattelhorn	Eastern Alps	1893	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Sattelhorn	Eastern Alps	2013	Wipf et al. (unpublished data)	wipf@slf.ch
Scalettahorn	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Scalettahorn	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Schafberg	Eastern Alps	2003	Erschbamer et al. (2006)	Brigitta.Erschbamer@uibk.ac.at
Schafberg	Eastern Alps	2011	Erschbamer et al. (2011)	Brigitta.Erschbamer@uibk.ac.at
Schafgrind	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Schafgrind	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Schaffläger	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Schaffläger	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Schwarzhorn (Chummer)	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Schwarzhorn (Chummer)	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Schwarzhorn (Flüela)	Eastern Alps	1902	Braun 1913, Schibler, W. (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Schwarzhorn (Flüela)	Eastern Alps	1938	Lüdi, W. (1938)	wipf@slf.ch
Schwarzhorn (Flüela)	Eastern Alps	1992	Grabherr et al. (1994)	wipf@slf.ch
Schwarzhorn (Flüela)	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Schwarzhorn (Totalp)	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Schwarzhorn (Totalp)	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Sentschhorn	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Sentschhorn	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Stockkogel	Eastern Alps	1953	Reisigl & Pitschmann (1958)	harald.pauli@oeaw.ac.at
Stockkogel	Eastern Alps	1992	Grabherr et al. (1994)	harald.pauli@oeaw.ac.at
Stockkogel	Eastern Alps	2014	Pauli et al. (unpublished data)	harald.pauli@oeaw.ac.at
Strel	Eastern Alps	1916	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Strel	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Strela	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Strela	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Sulzfluh	Eastern Alps	1912	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Sulzfluh	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Tälihorn Avers	Eastern Alps	1911	Braun (1913)	wipf@slf.ch
Tälihorn Avers	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch

Tällihorn Davos	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Tällihorn Davos	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Tschima da Flix	Eastern Alps	1911	Braun (1913)	wipf@slf.ch
Tschima da Flix	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Valbellahorn	Eastern Alps	1920	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Valbellahorn	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Weihbrunnkogel	Eastern Alps	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Weihbrunnkogel	Eastern Alps	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Weissfluh	Eastern Alps	1894	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Weissfluh	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Weissfluhjoch	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Weissfluhjoch	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Wilde Kreuzspitze	Eastern Alps	1907	Klebensberg (1913)	harald.pauli@oeaw.ac.at
Wilde Kreuzspitze	Eastern Alps	1992	Grabherr et al. (1994)	harald.pauli@oeaw.ac.at
Wilde Kreuzspitze	Eastern Alps	2014	Pauli et al. (unpublished data)	harald.pauli@oeaw.ac.at
Witihürel	Eastern Alps	1911	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Witihürel	Eastern Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Wuosthorn	Eastern Alps	1897	Schibler (1897, 1929, 1937) & Herbarium & Manuscript	wipf@slf.ch
Wuosthorn	Eastern Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Zagelkogel-NW-summit	Eastern Alps	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Zagelkogel-NW-summit	Eastern Alps	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Zinken-NW-summit	Eastern Alps	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Zinken-NW-summit	Eastern Alps	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Agjek	Northern Scandes	1935	Jørgensen (1936)	kari.klanderud@nmbu.no
Agjek	Northern Scandes	2008	Henriksen (unpublished data)	kari.klanderud@nmbu.no
Båtfjellet	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Båtfjellet	Northern Scandes	2010	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Bentsjordtinden	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Bentsjordtinden	Northern Scandes	2010	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Bergheien	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Bergheien	Northern Scandes	2014	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Broran	Northern Scandes	1935	Jørgensen (1936)	kari.klanderud@nmbu.no
Broran	Northern Scandes	2008	Henriksen (unpublished data)	kari.klanderud@nmbu.no
Dadatjåkka	Northern Scandes	1934	Arwidsson (1943)	siri.haugum@gmail.com
Dadatjåkka	Northern Scandes	2014	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Dåresajvve	Northern Scandes	1934	Arwidsson (1943)	siri.haugum@gmail.com
Dåresajvve	Northern Scandes	2016	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Dømannknut	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Dømannknut	Northern Scandes	2014	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Dreggfjellet	Northern Scandes	1935	Jørgensen (1936)	kari.klanderud@nmbu.no
Dreggfjellet	Northern Scandes	2008	Henriksen (unpublished data)	kari.klanderud@nmbu.no
Elgen	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Elgen	Northern Scandes	2010	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Fastdalstind	Northern Scandes	1935	Jørgensen (1936)	kari.klanderud@nmbu.no
Fastdalstind	Northern Scandes	2008	Henriksen (unpublished data)	kari.klanderud@nmbu.no
Fierras	Northern Scandes	1933	Arwidsson (1943)	siri.haugum@gmail.com
Fierras	Northern Scandes	2014	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Fjellatjhåkkå	Northern Scandes	1933	Arwidsson (1943)	siri.haugum@gmail.com
Fjellatjhåkkå	Northern Scandes	2016	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Gavatjåkkå	Northern Scandes	1934	Arwidsson (1943)	siri.haugum@gmail.com
Gavatjåkkå	Northern Scandes	2016	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Gujjavrtjårro	Northern Scandes	1933	Arwidsson (1943)	siri.haugum@gmail.com
Gujjavrtjårro	Northern Scandes	2016	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Hjerttinden	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no

Hjerttinden	Northern Scandes	2014	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Jeknafo	Northern Scandes	1944	Selander (1950)	siri.haugum@gmail.com
Jeknafo	Northern Scandes	2016	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Kåbrek	Northern Scandes	1934	Arwidsson (1943)	siri.haugum@gmail.com
Kåbrek	Northern Scandes	2016	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Kåbrek nord	Northern Scandes	1934	Arwidsson (1943)	siri.haugum@gmail.com
Kåbrek nord	Northern Scandes	2014	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Kåbrek sør	Northern Scandes	1934	Arwidsson (1943)	siri.haugum@gmail.com
Kåbrek sør	Northern Scandes	2014	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Kampen	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Kampen	Northern Scandes	2014	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Kårsatjåkka	Northern Scandes	2002	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Kårsatjåkka	Northern Scandes	2009	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Kårsavsgge	Northern Scandes	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Kårsavsgge	Northern Scandes	2009	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Kavringtind	Northern Scandes	1935	Jørgensen (1936)	kari.klanderud@nmbu.no
Kavringtind	Northern Scandes	2008	Henriksen (unpublished data)	kari.klanderud@nmbu.no
Kebnetjakko Liltoppen	Northern Scandes	1912	du Rietz (1924)	rixen@slf.ch
Kebnetjakko Liltoppen	Northern Scandes	2013	Rixen & Wipf (unpublished data)	rixen@slf.ch
Kierkevarre	Northern Scandes	1944	Selander (1950)	siri.haugum@gmail.com
Kierkevarre	Northern Scandes	2016	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Kuobberi	Northern Scandes	1941	Selander (unpublished field notes)	siri.haugum@gmail.com
Kuobberi	Northern Scandes	2016	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Latnjachorru	Northern Scandes	2002	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Latnjachorru	Northern Scandes	2009	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Lifjellet	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Lifjellet	Northern Scandes	2014	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Mattagaisi	Northern Scandes	1935	Jørgensen (1936)	kari.klanderud@nmbu.no
Mattagaisi	Northern Scandes	2008	Henriksen (unpublished data)	kari.klanderud@nmbu.no
Middagshaugen	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Middagshaugen	Northern Scandes	2010	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Neidatjåkko	Northern Scandes	1932	Arwidsson (1943)	siri.haugum@gmail.com
Neidatjåkko	Northern Scandes	2014	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Nissontjarro high	Northern Scandes	1924	du Rietz (1924), du Rietz (field notes)	rixen@slf.ch
Nissontjarro high	Northern Scandes	2013	Rixen & Wipf (unpublished data)	rixen@slf.ch
Nissontjarro low	Northern Scandes	1924	du Rietz (1924), du Rietz (field notes)	rixen@slf.ch
Nissontjarro low	Northern Scandes	2013	Rixen & Wipf (unpublished data)	rixen@slf.ch
Nissontjarro mid	Northern Scandes	1924	du Rietz (1924), du Rietz (field notes)	rixen@slf.ch
Nissontjarro mid	Northern Scandes	2013	Rixen & Wipf (unpublished data)	rixen@slf.ch
Pallentjåkka high	Northern Scandes	1924	du Rietz (1924), du Rietz (field notes)	rixen@slf.ch
Pallentjåkka high	Northern Scandes	2013	Rixen et al. (unpublished data)	rixen@slf.ch
Pallentjåkka low	Northern Scandes	1924	du Rietz (1924), du Rietz (field notes)	rixen@slf.ch
Pallentjåkka low	Northern Scandes	2013	Rixen et al. (unpublished data)	rixen@slf.ch
Peljekaise	Northern Scandes	1925	Arwidsson (1943)	siri.haugum@gmail.com
Peljekaise	Northern Scandes	2014	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Prestkonetinden	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Prestkonetinden	Northern Scandes	2010	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Rakkasvare	Northern Scandes	2002	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Rakkasvare	Northern Scandes	2009	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Reinøya/Reinsvold	Northern Scandes	1890	Norman (1894)	jutta.kapfer@nibio.no
Reinøya/Reinsvold	Northern Scandes	2015	Kapfer et al. (unpublished data)	jutta.kapfer@nibio.no
Rihpogaisi	Northern Scandes	1935	Jørgensen (1936)	kari.klanderud@nmbu.no
Rihpogaisi	Northern Scandes	2008	Henriksen (unpublished data)	kari.klanderud@nmbu.no
Sarregaisi	Northern Scandes	1935	Jørgensen (1936)	kari.klanderud@nmbu.no
Sarregaisi	Northern Scandes	2008	Henriksen (unpublished data)	kari.klanderud@nmbu.no
Sollitinden	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Sollitinden	Northern Scandes	2014	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Store Graddis	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Store Graddis	Northern Scandes	2010	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Tarfalatjakko S	Northern Scandes	1924	du Rietz (1924), du Rietz (field notes)	rixen@slf.ch
Tarfalatjakko S	Northern Scandes	2013	Rixen & Wipf (unpublished data)	rixen@slf.ch

Tjåknåris	Northern Scandes	1934	Arwidsson (1943)	siri.haugum@gmail.com
Tjåknåris	Northern Scandes	2014	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Tjamuhas high	Northern Scandes	1924	du Rietz (1924), du Rietz (field notes)	rixen@slf.ch
Tjamuhas high	Northern Scandes	2013	Rixen & Wipf (unpublished data)	rixen@slf.ch
Tjamuhas low	Northern Scandes	1924	du Rietz (1924), du Rietz (field notes)	rixen@slf.ch
Tjamuhas low	Northern Scandes	2013	Rixen & Wipf (unpublished data)	rixen@slf.ch
Tjiddtjak	Northern Scandes	1938	Arwidsson (1943)	siri.haugum@gmail.com
Tjiddtjak	Northern Scandes	2014	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Tromsdalstinden	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Tromsdalstinden	Northern Scandes	2010	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Vassatjåkka low	Northern Scandes	1924	du Rietz (1924), du Rietz (field notes)	rixen@slf.ch
Vassatjåkka low	Northern Scandes	2013	Rixen & Wipf (unpublished data)	rixen@slf.ch
Vavlatjärro	Northern Scandes	1933	Arwidsson (1943)	siri.haugum@gmail.com
Vavlatjärro	Northern Scandes	2016	Haugum et al. (unpublished data)	siri.haugum@gmail.com
Vestre istinden	Northern Scandes	1890	Norman (1894)	jon.grytnes@uib.no
Vestre istinden	Northern Scandes	2014	Grytnes et al. (unpublished data)	jon.grytnes@uib.no
Arre Sourins	Pyrenees	1881	Bouillé (1885)	s.palacio@ipe.csic.es
Arre Sourins	Pyrenees	2012	Herreros et al. (unpublished data)	s.palacio@ipe.csic.es
Grand Gabizos	Pyrenees	1881	Bouillé (1881)	s.palacio@ipe.csic.es
Grand Gabizos	Pyrenees	2013	Herreros et al. (unpublished data)	s.palacio@ipe.csic.es
Monte Turbón	Pyrenees	1953	Montserrat (1953)	s.palacio@ipe.csic.es
Monte Turbón	Pyrenees	2013	Herreros et al. (unpublished data)	s.palacio@ipe.csic.es
Petit Gabizos	Pyrenees	1881	Bouillé (1881)	s.palacio@ipe.csic.es
Petit Gabizos	Pyrenees	2013	Herreros et al. (unpublished data)	s.palacio@ipe.csic.es
Pic Carlitte	Pyrenees	1888	Marcaillou d'Ayméric and Galissier (1888)	s.palacio@ipe.csic.es
Pic Carlitte	Pyrenees	2014	Herreros et al. (unpublished data)	s.palacio@ipe.csic.es
Pic du Ger	Pyrenees	1881	Bouillé (1881)	s.palacio@ipe.csic.es
Pic du Ger	Pyrenees	2012	Herreros et al. (unpublished data)	s.palacio@ipe.csic.es
Puig de Coma Pedrosa	Pyrenees	1894	Marcaillou (1907)	s.palacio@ipe.csic.es
Puig de Coma Pedrosa	Pyrenees	2012	Herreros et al. (unpublished data)	s.palacio@ipe.csic.es
Punta Acuta	Pyrenees	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Punta Acuta	Pyrenees	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Punta Custodia	Pyrenees	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Punta Custodia	Pyrenees	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Punta de las Olas	Pyrenees	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Punta de las Olas	Pyrenees	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Punta Tobacor	Pyrenees	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Punta Tobacor	Pyrenees	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Salvaguardia	Pyrenees	1885	Vallot (1885)	s.palacio@ipe.csic.es
Salvaguardia	Pyrenees	2012	Herreros et al. (unpublished data)	s.palacio@ipe.csic.es
Beinn Hearsargarnich	Scotland	1912	Ewing (1912)	francesca.jaroszynska@uib.no
Beinn Hearsargarnich	Scotland	2013	Jaroszyńska (unpublished data)	francesca.jaroszynska@uib.no
Camp Cairn	Scotland	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Camp Cairn	Scotland	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Creag Mhigeachaidh	Scotland	2002	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Creag Mhigeachaidh	Scotland	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Creag Mhor	Scotland	1912	Ewing (1912)	francesca.jaroszynska@uib.no
Creag Mhor	Scotland	2013	Jaroszyńska et al. (unpublished data)	francesca.jaroszynska@uib.no
Meall nan Tarmachan	Scotland	1912	Ewing (1912)	francesca.jaroszynska@uib.no
Meall nan Tarmachan	Scotland	2013	Jaroszyńska et al. (unpublished data)	francesca.jaroszynska@uib.no
Sgoran Dubh Mor	Scotland	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Sgoran Dubh Mor	Scotland	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Unknown Hillock	Scotland	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Unknown Hillock	Scotland	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Berdalseken	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Berdalseken	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Bukkehammaren	Southern Scandes	1930	Jørgensen (1933)	kari.klanderud@nmbu.no
Bukkehammaren	Southern Scandes	1998	Klanderud & Birks (2003)	kari.klanderud@nmbu.no
Bukkehammaren	Southern Scandes	2014	Grindrud (unpublished data)	kari.klanderud@nmbu.no
Frostdalsnosi	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no

Frostdalsnosi	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Grånosi	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Grånosi	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Graveggi	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Graveggi	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Heimdalslø	Southern Scandes	1930	Jørgensen (1933)	kari.klanderud@nmbu.no
Heimdalslø	Southern Scandes	1998	Klanderud & Birks (2003)	kari.klanderud@nmbu.no
Heimdalslø	Southern Scandes	2014	Grindrud et al. (unpublished data)	kari.klanderud@nmbu.no
Kirken	Southern Scandes	1931	Jørgensen (1933)	kari.klanderud@nmbu.no
Kirken	Southern Scandes	1998	Klanderud & Birks (2003)	kari.klanderud@nmbu.no
Kirken	Southern Scandes	2014	Grindrud et al. (unpublished data)	kari.klanderud@nmbu.no
Kolla	Southern Scandes	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Kolla	Southern Scandes	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Krekahaugen	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Krekahaugen	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Krekanosi	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Krekanosi	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Krekanosi S	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Krekanosi S	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Loppenosi	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Loppenosi	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Nordre Heilstuguhø	Southern Scandes	1931	Jørgensen (1933)	kari.klanderud@nmbu.no
Nordre Heilstuguhø	Southern Scandes	1998	Klanderud & Birks (2003)	kari.klanderud@nmbu.no
Nordre Heilstuguhø	Southern Scandes	2014	Grindrud et al. (unpublished data)	kari.klanderud@nmbu.no
Raslet	Southern Scandes	1930	Jørgensen (1933)	kari.klanderud@nmbu.no
Raslet	Southern Scandes	1998	Klanderud & Birks (2003)	kari.klanderud@nmbu.no
Raslet	Southern Scandes	2014	Grindrud et al. (unpublished data)	kari.klanderud@nmbu.no
Ripeskardegg	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Ripeskardegg	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Sikkilsdalshøa	Southern Scandes	1930	Jørgensen (1933)	kari.klanderud@nmbu.no
Sikkilsdalshøa	Southern Scandes	1998	Klanderud & Birks (2003)	kari.klanderud@nmbu.no
Sikkilsdalshøa	Southern Scandes	2014	Grindrud et al. (unpublished data)	kari.klanderud@nmbu.no
Skauthøi	Southern Scandes	1931	Jørgensen (1933)	kari.klanderud@nmbu.no
Skauthøi	Southern Scandes	1998	Klanderud & Birks (2003)	kari.klanderud@nmbu.no
Skauthøi	Southern Scandes	2014	Grindrud et al. (unpublished data)	kari.klanderud@nmbu.no
Slettningseggi	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Slettningseggi	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Spiterhøi	Southern Scandes	1931	Jørgensen (1933)	kari.klanderud@nmbu.no
Spiterhøi	Southern Scandes	1998	Klanderud & Birks (2003)	kari.klanderud@nmbu.no
Spiterhøi	Southern Scandes	2014	Grindrud et al. (unpublished data)	kari.klanderud@nmbu.no
Steindalsnosi	Southern Scandes	1931	Jørgensen 1933	kari.klanderud@nmbu.no
Steindalsnosi	Southern Scandes	1998	Klanderud & Birks 2003	kari.klanderud@nmbu.no
Steindalsnosi	Southern Scandes	2014	Grindrud et al. (unpublished data)	kari.klanderud@nmbu.no
Storeknippa	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Storeknippa	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Storkinn	Southern Scandes	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Storkinn	Southern Scandes	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Suletinden	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Suletinden	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Unnamed	Southern Scandes	1972	Lye (1973)	arvid.odland@usn.no
Unnamed	Southern Scandes	2009	Odland et al. (2010)	arvid.odland@usn.no
Vesle Armodshokollen	Southern Scandes	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Vesle Armodshokollen	Southern Scandes	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Veslekolla	Southern Scandes	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Veslekolla	Southern Scandes	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Veslfjellet	Southern Scandes	1930	Jørgensen 1933	kari.klanderud@nmbu.no
Veslfjellet	Southern Scandes	1998	Klanderud & Birks (2003)	kari.klanderud@nmbu.no
Veslfjellet	Southern Scandes	2014	Grindrud et al. (unpublished data)	kari.klanderud@nmbu.no
Botn/Brun	Svalbard	1939	Hadac (1944)	jutta.kapfer@nibio.no
Botn/Brun	Svalbard	2009	Kapfer & Grytnes (unpublished data)	jutta.kapfer@nibio.no
Campbellryggen	Svalbard	1958	Rønning (1957)	jutta.kapfer@nibio.no

Campbellryggen	Svalbard	2009	Kapfer & Grytnes (unpublished data)	jutta.kapfer@nibio.no
Gattytoppen	Svalbard	1939	Hadac (1944)	jutta.kapfer@nibio.no
Gattytoppen	Svalbard	2009	Kapfer & Grytnes (unpublished data)	jutta.kapfer@nibio.no
Hjorthfjell	Svalbard	1939	Hadac (1944)	jutta.kapfer@nibio.no
Hjorthfjell	Svalbard	2009	Kapfer & Grytnes (unpublished data)	jutta.kapfer@nibio.no
Konussen	Svalbard	1939	Hadac (1944)	jutta.kapfer@nibio.no
Konussen	Svalbard	2009	Kapfer & Grytnes (unpublished data)	jutta.kapfer@nibio.no
Lundbohm fjell	Svalbard	1958	Rønning (1957)	jutta.kapfer@nibio.no
Lundbohm fjell	Svalbard	2009	Kapfer & Grytnes (unpublished data)	jutta.kapfer@nibio.no
Vesuv	Svalbard	1958	Rønning (1957)	jutta.kapfer@nibio.no
Vesuv	Svalbard	2009	Kapfer & Grytnes (unpublished data)	jutta.kapfer@nibio.no
Gerlachovský štít	NW Carpathians	1882	Sagorski & Schneider (1891)	robert.kanka@savba.sk
Gerlachovský štít	NW Carpathians	2014	Kanka & Piscová (unpublished data)	robert.kanka@savba.sk
Giewont	NW Carpathians	1948	Pawlowski (1956)	patrykczortek@biol.uw.edu.pl
Giewont	NW Carpathians	2014	Czortek et al. (unpublished data)	patrykczortek@biol.uw.edu.pl
Havran2	NW Carpathians	1948	Pawlowski (1956)	patrykczortek@biol.uw.edu.pl
Havran2	NW Carpathians	2014	Czortek et al. (unpublished data)	patrykczortek@biol.uw.edu.pl
Hlúpy	NW Carpathians	1880	Sagorski & Schneider (1891)	robert.kanka@savba.sk
Hlúpy	NW Carpathians	2013	Kanka & Piscová (unpublished data)	robert.kanka@savba.sk
Jahňací štít	NW Carpathians	1884	Sagorski & Schneider (1891)	robert.kanka@savba.sk
Jahňací štít	NW Carpathians	2013	Kanka & Piscová (unpublished data)	robert.kanka@savba.sk
Kamienista	NW Carpathians	1888	Sagorski & Schneider (1891)	patrykczortek@biol.uw.edu.pl
Kamienista	NW Carpathians	2014	Czortek et al. (unpublished data)	patrykczortek@biol.uw.edu.pl
Kopa Magury	NW Carpathians	1888	Sagorski & Schneider (1891)	patrykczortek@biol.uw.edu.pl
Kopa Magury	NW Carpathians	2014	Czortek et al. (unpublished data)	patrykczortek@biol.uw.edu.pl
Krátka	NW Carpathians	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Krátka	NW Carpathians	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Křížna	NW Carpathians	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Křížna	NW Carpathians	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Kzesanica	NW Carpathians	1888	Sagorski & Schneider (1891)	patrykczortek@biol.uw.edu.pl
Kzesanica	NW Carpathians	1927	Pawlowski 1928	patrykczortek@biol.uw.edu.pl
Kzesanica	NW Carpathians	2014	Czortek et al. (unpublished data)	patrykczortek@biol.uw.edu.pl
Sedielková kopa	NW Carpathians	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Sedielková kopa	NW Carpathians	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Slávkovský štít	NW Carpathians	1888	Sagorski & Schneider (1891)	patrykczortek@biol.uw.edu.pl
Slávkovský štít	NW Carpathians	2014	Czortek et al. (unpublished data)	patrykczortek@biol.uw.edu.pl
Szeroka Jaworzyńska	NW Carpathians	1888	Sagorski & Schneider (1891)	patrykczortek@biol.uw.edu.pl
Szeroka Jaworzyńska	NW Carpathians	2014	Czortek et al. (unpublished data)	patrykczortek@biol.uw.edu.pl
Velká kopa	NW Carpathians	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Velká kopa	NW Carpathians	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Lomnický štít	NW Carpathians	1883	Sagorski & Schneider 1891	patrykczortek@biol.uw.edu.pl
Lomnický štít	NW Carpathians	2014	Kanka & Piscová (unpublished data)	patrykczortek@biol.uw.edu.pl
Rysy	NW Carpathians	1882	Sagorski & Schneider 1891	patrykczortek@biol.uw.edu.pl
Rysy	NW Carpathians	2014	Kanka & Piscová (unpublished data)	patrykczortek@biol.uw.edu.pl
Aemilius	Western Alps	1901	Vaccari (1902b)	elena.barni@unito.it
Aemilius	Western Alps	2014	Barni et al. (unpublished data)	elena.barni@unito.it
Basòdino	Western Alps	1904	Braun (1913)	wipf@slf.ch
Basòdino	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Becca di Nona	Western Alps	1899	Vaccari (1901)	elena.barni@unito.it
Becca di Nona	Western Alps	2013	Barni et al. (unpublished data)	elena.barni@unito.it
Bös Fülen	Western Alps	1942	Wirz-Luchsinger (1945)	wipf@slf.ch
Bös Fülen	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Campo Tencia	Western Alps	1905	Braun (1913)	wipf@slf.ch
Campo Tencia	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Cassonsgrat calcareous	Western Alps	1903	Braun (1913)	wipf@slf.ch
Cassonsgrat calcareous	Western Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Cassonsgrat silicate	Western Alps	1903	Braun (1913)	wipf@slf.ch
Cassonsgrat silicate	Western Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Cima Gana Bianca	Western Alps	1902	Steiger (1906)	wipf@slf.ch
Cima Gana Bianca	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Cime Bianche	Western Alps	2002	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it

Cime Bianche	Western Alps	2010	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it
Cime Bianche	Western Alps	2012	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it
Colle Lago Bianco	Western Alps	2002	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it
Colle Lago Bianco	Western Alps	2010	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it
Colle Lago Bianco	Western Alps	2012	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it
Corona di Redorta	Western Alps	1903	Braun (1913)	wipf@slf.ch
Corona di Redorta	Western Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Felsberger Calanda	Western Alps	1901	Braun (1913)	wipf@slf.ch
Felsberger Calanda	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Fibbia	Western Alps	1903	Braun (1913)	wipf@slf.ch
Fibbia	Western Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Gemsfärenstock	Western Alps	1942	Wirz-Luchsinger (1958)	wipf@slf.ch
Gemsfärenstock	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Güner Horn	Western Alps	1903	Braun (1913)	wipf@slf.ch
Güner Horn	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Haldensteiner Calanda	Western Alps	1911	Braun (1913)	wipf@slf.ch
Haldensteiner Calanda	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Höch Turm	Western Alps	1940	Wirz-Luchsinger (1945)	wipf@slf.ch
Höch Turm	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
La Ly	Western Alps	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
La Ly	Western Alps	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
La Ly	Western Alps	2015	Vittoz&Theurillat (unpublished data)	pascal.vittoz@unil.ch
Lago Balena	Western Alps	2002	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it
Lago Balena	Western Alps	2010	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it
Lago Balena	Western Alps	2012	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it
Madone Batnall	Western Alps	1906	Braun (1913)	wipf@slf.ch
Madone Batnall	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Merciantaira	Western Alps	1930	Pawlowski (1959)	elena.barni@unito.it
Merciantaira	Western Alps	2014	Barni et al. (unpublished data)	elena.barni@unito.it
Mont Brûlé	Western Alps	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Mont Brûlé	Western Alps	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Mont Brûlé	Western Alps	2015	Vittoz&Theurillat (unpublished data)	pascal.vittoz@unil.ch
Monte Marzo	Western Alps	1901	Vaccari (1902a)	elena.barni@unito.it
Monte Marzo	Western Alps	2014	Barni et al. (unpublished data)	elena.barni@unito.it
Ober Rothorn	Western Alps	1919	Braun-Blanquet (1921)	elena.barni@unito.it
Ober Rothorn	Western Alps	2014	Barni et al. (unpublished data)	elena.barni@unito.it
Ortstock	Western Alps	1940	Wirz-Luchsinger (1945, 1958)	wipf@slf.ch
Ortstock	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Piz Beverin	Western Alps	1904	Braun (1913)	wipf@slf.ch
Piz Beverin	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Piz Borel	Western Alps	1904	Braun (1913)	wipf@slf.ch
Piz Borel	Western Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Piz Lai Blau	Western Alps	1911	Braun (1913)	wipf@slf.ch
Piz Lai Blau	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Piz Mirutta	Western Alps	1908	Braun (1913)	wipf@slf.ch
Piz Mirutta	Western Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Piz Signina	Western Alps	1903	Braun (1913)	wipf@slf.ch
Piz Signina	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Piz Tomül	Western Alps	1911	Braun (1913)	wipf@slf.ch
Piz Tomül	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Piz Tuf	Western Alps	1910	Braun (1913)	wipf@slf.ch
Piz Tuf	Western Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Pizzo del Lago Scuro	Western Alps	1904	Braun (Notebook)	wipf@slf.ch
Pizzo del Lago Scuro	Western Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Pizzo del Sole	Western Alps	1906	Braun (1913)	wipf@slf.ch
Pizzo del Sole	Western Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Pizzo Quadro	Western Alps	1906	Braun (1913)	wipf@slf.ch
Pizzo Quadro	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Pointe de Boveire	Western Alps	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Pointe de Boveire	Western Alps	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Pointe de Boveire	Western Alps	2015	Vittoz&Theurillat (unpublished data)	pascal.vittoz@unil.ch

Pointe du Parc	Western Alps	2001	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Pointe du Parc	Western Alps	2008	Pauli et al. (2012)	harald.pauli@oeaw.ac.at
Pointe du Parc	Western Alps	2015	Vittoz&Theurillat (unpublished data)	pascal.vittoz@unil.ch
Pra Pelat	Western Alps	2002	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it
Pra Pelat	Western Alps	2010	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it
Pra Pelat	Western Alps	2012	Morra di Cella et al. (unpublished data)	u.morradicella@arpa.vda.it
Pulpito	Western Alps	1904	Braun (unpublished field book)	wipf@slf.ch
Pulpito	Western Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Rocciamelone	Western Alps	1909	Mussa (1909)	elena.barni@unito.it
Rocciamelone	Western Alps	2014	Barni et al. (unpublished data)	elena.barni@unito.it
Rosa dei Banchi	Western Alps	1902	Vaccari (1902a)	elena.barni@unito.it
Rosa dei Banchi	Western Alps	2014	Barni et al. (unpublished data)	elena.barni@unito.it
Rosbodenstock	Western Alps	1912	Braun (1913)	wipf@slf.ch
Rosbodenstock	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Scopi	Western Alps	1903	Braun (1913)	wipf@slf.ch
Scopi	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Tällihorn Safien	Western Alps	1911	Braun (1913)	wipf@slf.ch
Tällihorn Safien	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Tristelhorn	Western Alps	1909	Braun (1913)	wipf@slf.ch
Tristelhorn	Western Alps	2011	Wipf et al. (unpublished data)	wipf@slf.ch
Unterorthorn	Western Alps	1919	Braun-Blanquet (1921)	wipf@slf.ch
Unterorthorn	Western Alps	2016	Wipf et al. (unpublished data)	wipf@slf.ch
Valser Horn	Western Alps	1911	Braun (1913)	wipf@slf.ch
Valser Horn	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch
Vorderer Eggstock	Western Alps	1943	Wirz-Luchsinger (1945)	wipf@slf.ch
Vorderer Eggstock	Western Alps	2010	Wipf et al. (unpublished data)	wipf@slf.ch

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