

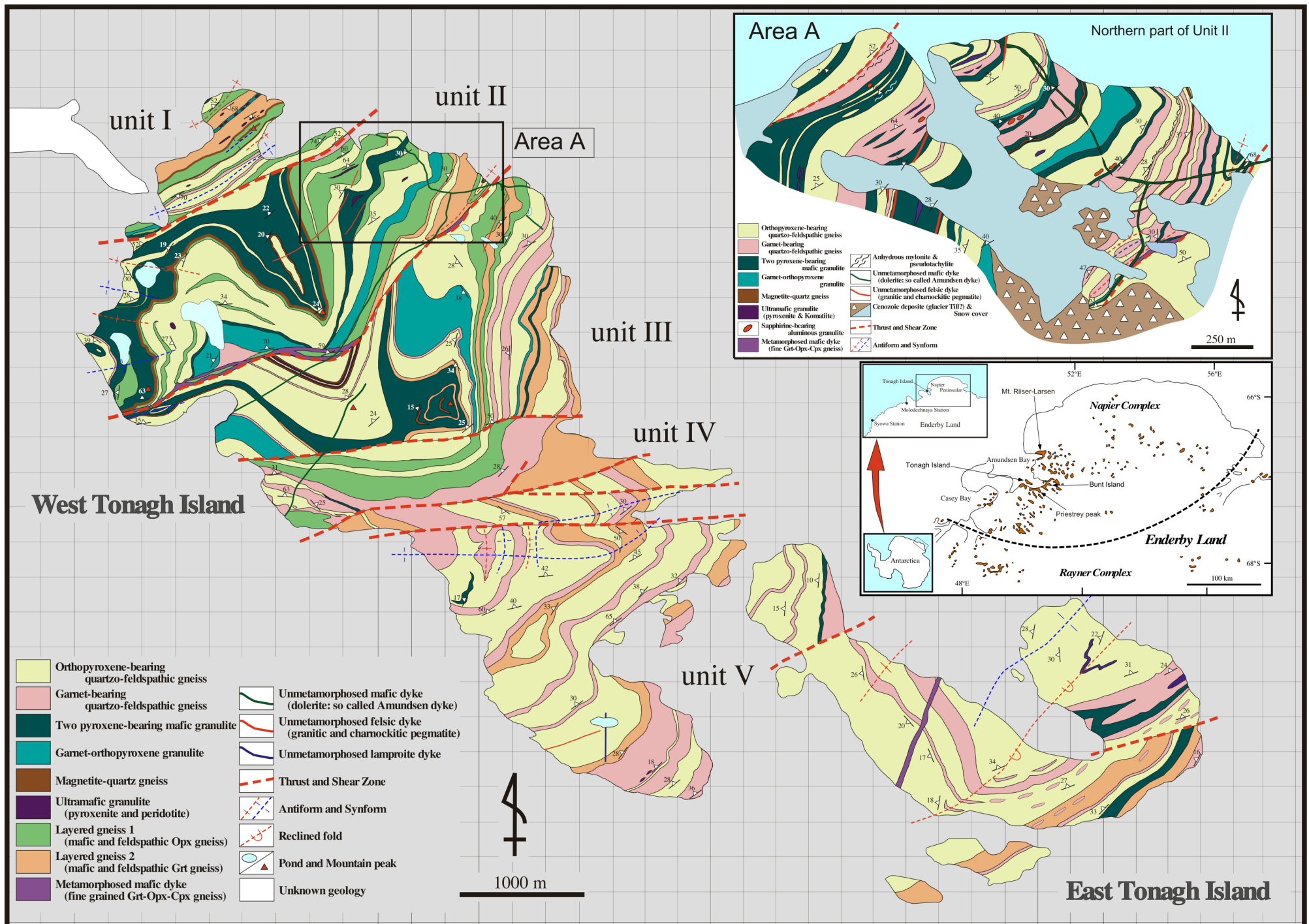


Fig. S1. Distribution of the Napier Complex in the Enderby Land and geological map of the Tonagh Island (modified after Osanai et al., 1999a).

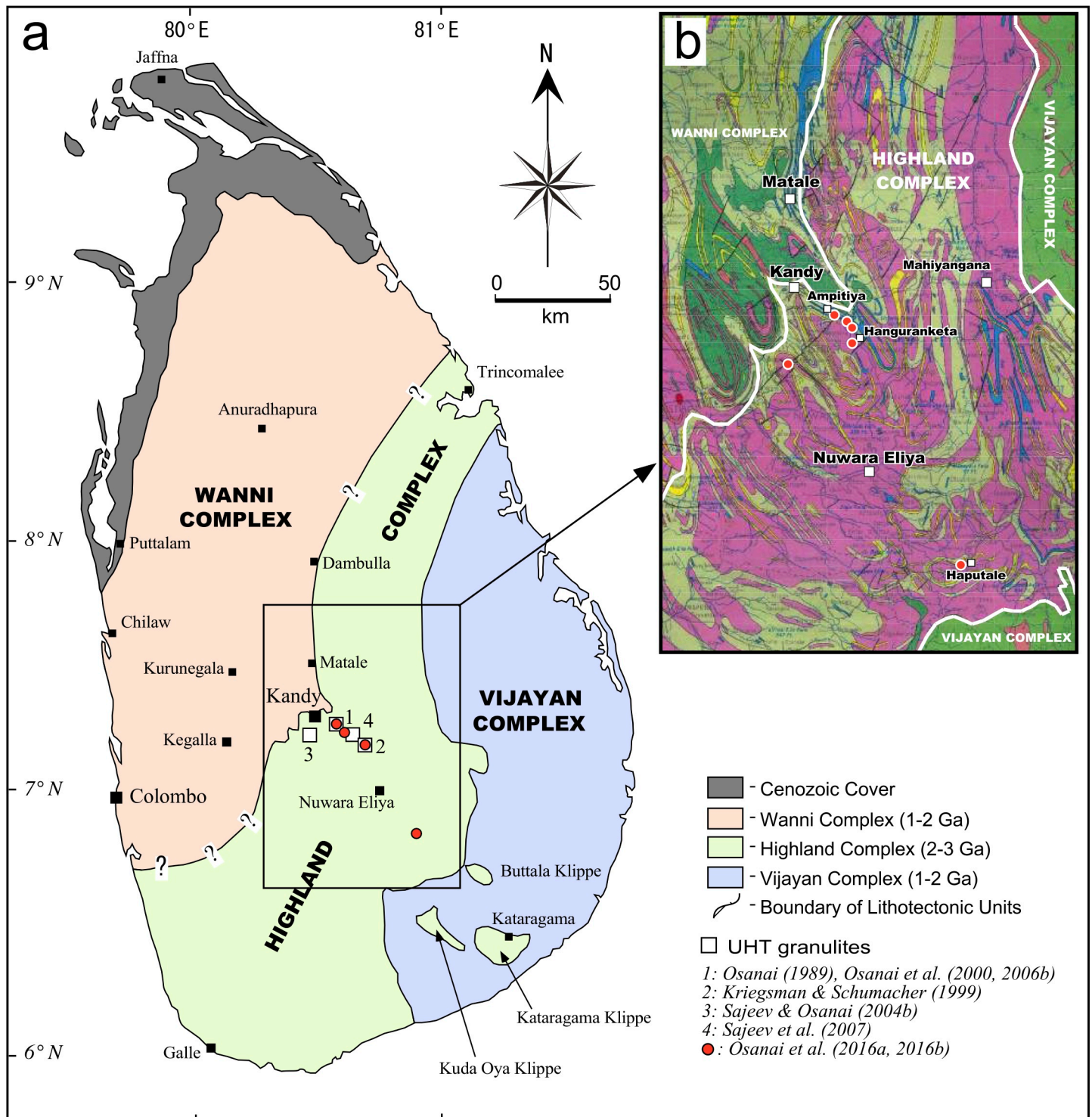


Fig. S2. Distribution of the Highland Complex in Sri Lanka (modified after Osanai et al., 2016a).

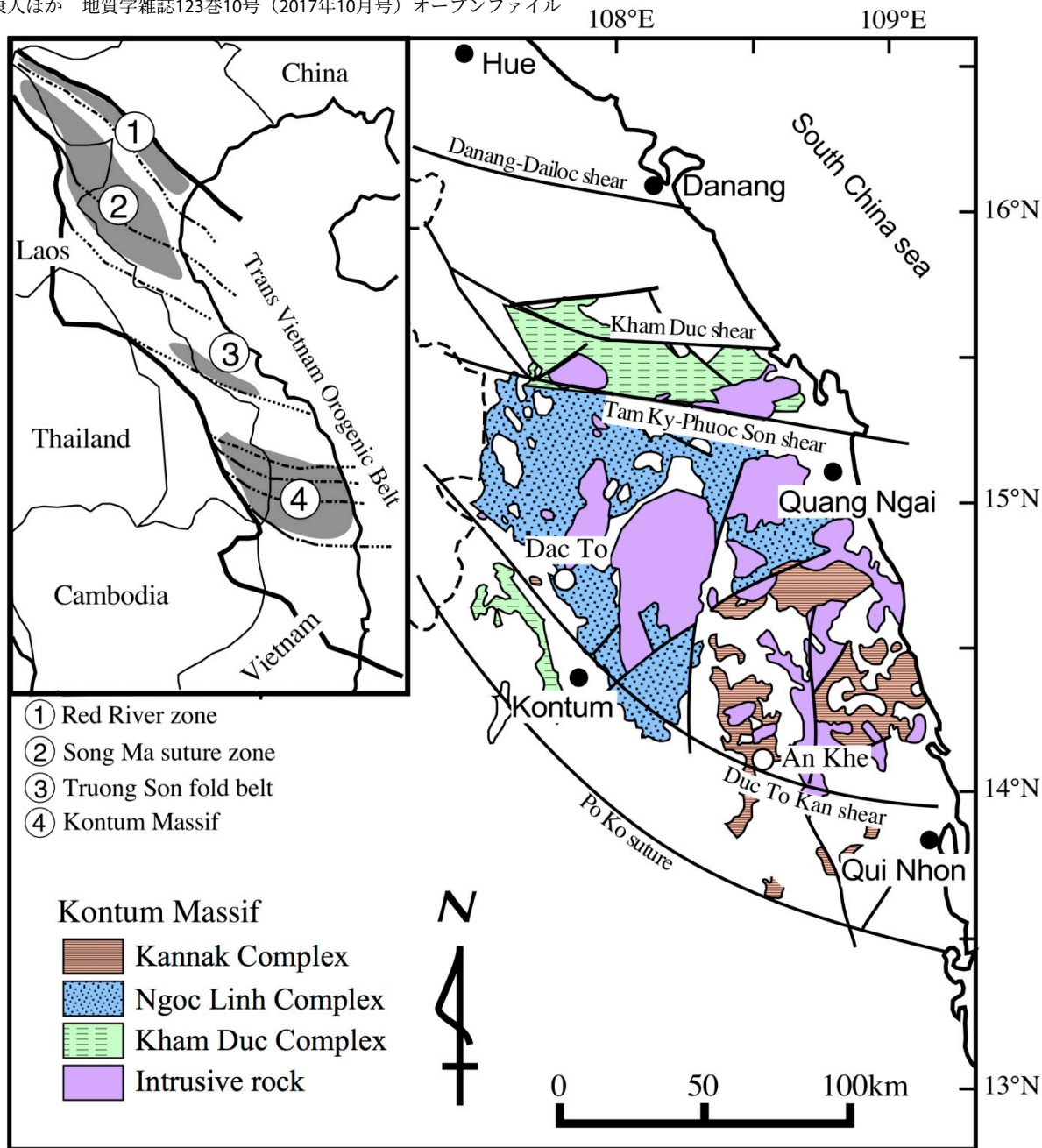


Fig. S3. Distribution of the metamorphic complexes in the Kontum Massif.
(modified after Osanai et al., 2008)

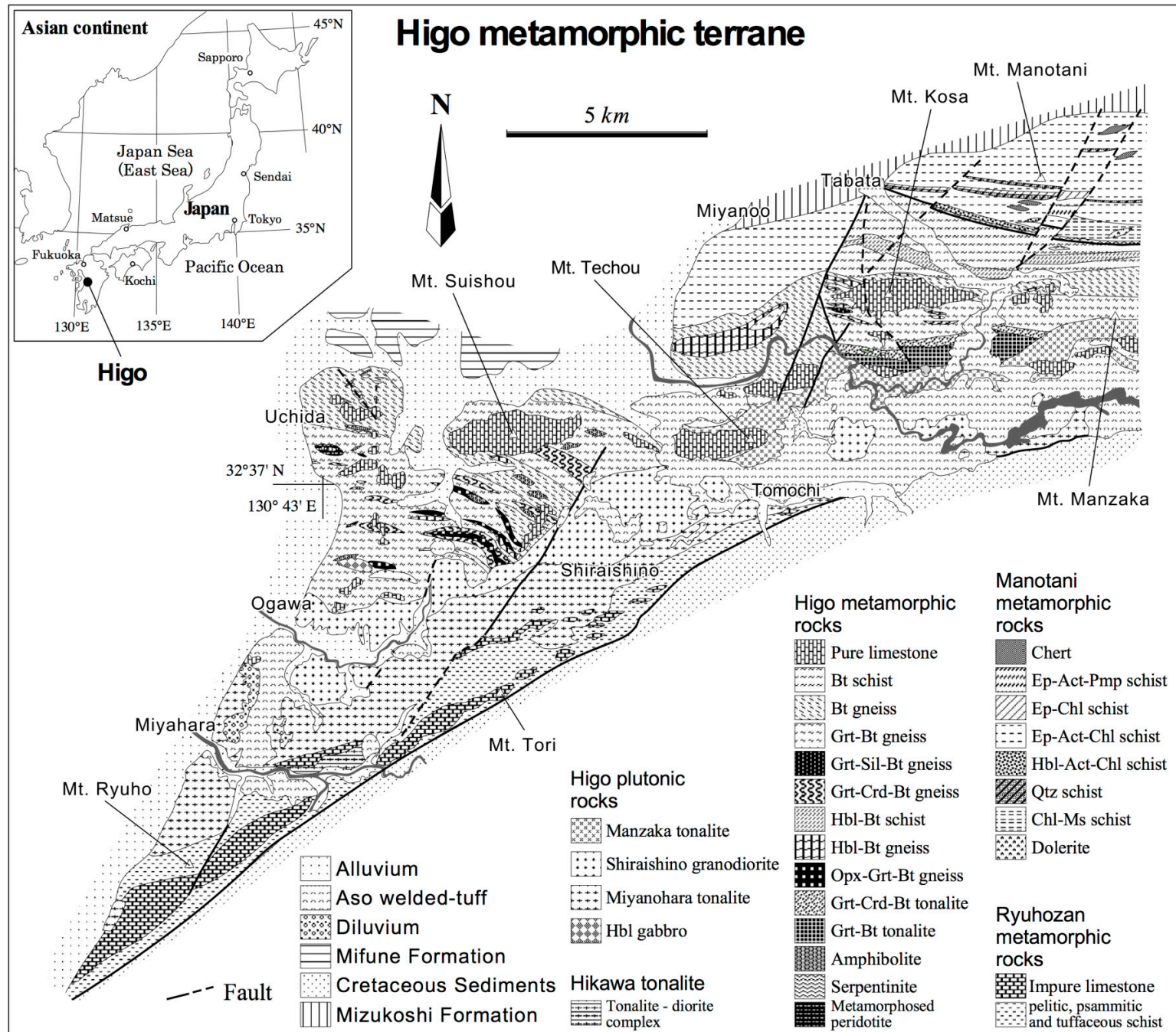


Fig. S4. Geological map of the Higo metamorphic Belt (modified after Osanai et al., 2014).

Table. S1. Publication list for article on UHT rocks written by Japanese research group

Authors	Year	Article title	Journal title	Vol	Page
<i>Review</i>					
本吉洋一	1998	東南極ナビア岩体の超高温変成作用：総説	地質学雑誌	104	794 807
小山内・吉村	2002	地殻内変成作用の高温限界：超高温変成作用	地質ニュース	573	10 26
石塚英男	2003	東南極ナビア及びレイナー岩体における日本南極地域観測隊地質グループの活動：成果の総括と今後の課題	南極資料	47	349 369
Mouri et al.	2004	Review on “corundum + quartz” assemblage in nature: possible indicator of ultra-high temperature conditions?	Jour. Mineral. Petrol. Sic.	99	159 163
Ishizuka, H.	2008	An overview of geological studies of JARE in the Napier Complex, Enderby Land, East Antarctica	Geol. Soc. Spec. Pub.	308	121 138
<i>Antarctica</i>					
Takigami et al.	1998	Preliminary ⁴⁰ Ar- ³⁹ Ar analyses of igneous and metamorphic rocks from the Napier Complex	Polar Geosci.	11	200 207
Asami et al.	1998	CHIME ages for granulites from the Napier Complex, East Antarctica	Polar Geosci.	11	172 199
Ishizuka et al.	1998	Geology of the Mt. Riiser-Larsen area of the Napier Complex, Enderby Land, East Antarctica	Polar Geosci.	11	154 171
Osanaï et al.	1999	Geology of ultrahigh-temperature metamorphic rocks from Tonagh Island in the Napier Complex, East Antarctica	Polar Geosci.	12	1 28
Toyoshima et al.	1999	Deformation of ultra-high-temperature metamorphic rocks from Tonagh Island in the Napier Complex, East Antarctica	Polar Geosci.	12	29 48
Hokada et al.	1999	Petrology and metamorphism of sapphirine-bearing aluminous gneisses from Tonagh Island in the Napier Complex, East Antarctica	Polar Geosci.	12	49 70
Tsunogae et al.	1999	Petrography and metamorphic reactions of ultra-high temperature mafic granulite from Tonagh Island in the Napier Complex, East Antarctica	Polar Geosci.	12	71 86
Suzuki et al.	1999	Geochemical study of granulites from Mt. Riiser-Larsen, Enderby Land, East Antarctica: Implication for protoliths of the Archean Napier Complex	Polar Geosci.	12	101 125
Owada et al.	1999	Petrography and geochemistry for mafic and ultramafic rocks from Tonagh Island in the Napier Complex, East Antarctica: A preliminary report	Polar Geosci.	12	87 100
Tsunogae et al.	2000	Fluorine-rich calcic amphibole in ultrahigh-temperature mafic granulite from Tonagh Island in the Napier Complex, East Antarctica	Polar Geosci.	13	103 113
Harley & Motoyoshi	2000	Al zoning in orthopyroxene in a sapphirine quartzite: Evidence for > 1120 °C UHT metamorphism in the Napier Complex, Antarctica, and implications for the entropy of sapphirine	Contrib. Mineral. Petrol.	138	293 307
Owada et al.	2000	LREE-enriched mafic gneiss and meta-ultramafic rock from Tonagh Island in the Napier Complex, East Antarctica	Polar Geosci.	13	86 102
Ishikawa et al.	1999	Geological map of Mount Riiser-Larsen, Enderby Land, Antarctica	Antarctic Geol. Map Ser.	37	23pp
Yoshimura et al.	2000	Ultrahigh-temperature metamorphic rocks from Howard Hills in the Napier Complex, East Antarctica	Polar Geosci.	13	60 85
Osanaï et al.	2001	Geological map of Tonagh Island, Enderby Land, Antarctica	Antarctic Geol. Map Ser.	38	40pp
Osanaï et al.	2001	Ultrahigh temperature sapphirine-oesumilite and sapphirine-quartz granulites from Bunt Island in the Napier Complex, East Antarctica –Reconnaissance estimation of P-T evolution	Polar Geosci.	14	1 24
Tsunogae et al.	2001	Carbonic fluid inclusions in ultrahigh-temperature metamorphic rocks from Tonagh Island in the Archean Napier Complex, East Antarctica: a preliminary report	Polar Geosci.	14	56 66
Grew et al.	2001	CHIME ages of xenotime, monazite and zircon from beryllium pegmatites in the Napier Complex, Khmara Bay, Enderby Land, East Antarctica	Polar Geosci.	14	99 118
Suzuki et al.	2001	Sm-Nd mineral isochron age of sapphirine-quartz gneiss from the Mt. Riiser-Larsen area in the Napier Complex, East Antarctica	Polar Geosci.	14	88 98
Yoshimura et al.	2001	High-grade metamorphic rocks from Christmas Point in the Napier Complex, East Antarctica	Polar Geosci.	14	53 74
Asami et al.	2002	Chemical Th-U-total Pb dating by electron microprobe analysis of monazite, xenotime and zircon from the Archean Napier complex, East Antarctica: Evidence for ultra-high-temperature metamorphism at 2400 Ma	Precam. Res.	114	249 275
Tsunogae et al.	2002	Very high-density carbonic fluid inclusions in sapphirine-bearing granulites from Tonagh Island in the Archean Napier Complex, East Antarctica: Implications for CO ₂ infiltration during ultrahigh-temperature (T>1,100 °C) metamorphism	Contrib. Mineral. Petrol.	143	279 299
Ishizuka et al.	2002	Peak temperatures of ultra-high temperature metamorphism of the Napier Complex, Enderby Land, East Antarctica, as deduced from porphyroclastic pyroxenes of meta-ultramafic rocks	Polar Geosci.	15	1 16
Owada et al.	2003	Early Proterozoic tectonothermal events in the Napier Complex, East Antarctica: Implications for the formation of East Gondwana	Gondwana Res.	6	231 240
Tsunogae et al.	2003	High fluorine pargasites in ultrahigh temperature granulites from Tonagh Island in the Archean Napier Complex, East Antarctica	Lithos	70	21 38
Hokada et al.	2004	SHRIMP and electron micropobe chronology of UHT metamorphism in the Napier Complex, East Antarctica: Implications for zircon growth at >1,000 °C	Jour. Mineral. Petrol. Sic.	147	1 20
Hokada et al.	2003	Mid to late Archean (3.3-2.5 Ga) tonalitic crustal formation and high-grade metamorphism at Mt. Riiser-Larsen, Napier Complex, East Antarctica	Precam. Res.	127	215 228
Tsunogae et al.	2003	Fluid inclusions in an osumilite-bearing granulite from Bunt Island in the Archean Napier Complex, East Antarctica: implications for a decompressional P-T path?	Polar Geosci.	16	61 75
Suzuki et al.	2006	Thermal history of UHT metamorphism in the Napier Complex, East Antarctica: Insights from zircon, monazite, and garnet ages	Jour. Geol.	114	65 84
Choi et al.	2006	Lu-Hf systematics of the ultra-high temperature Napier Metamorphic Complex in Antarctica: Evidence for the early Archean differentiation of Earth's mantle	Earth Planet. Sci. Lett.	246	305 316
Kawakami et al.	2006	Sulfide evolution in high-temperature to ultrahigh-temperature metamorphic rocks from Lützow-Holm Complex, East Antarctica	Lithos	92	431 446
Miyamoto et al.	2006	Mineral ages for multi isotope system in phlogopite-bearing pyroxene granulite and felsic gneiss, the Howard Hills, Enderby Land, East Antarctica: Possible Proterozoic tectonothermal events in the Napier Complex	Polar Geosci.	19	152 172
Hokada & Motoyoshi	2006	Electron microprobe technique for U-Th-Pb and REE chemistry of monazite, and its implications for pre-, peak- and post- metamorphic events of the Lützow-Holm Complex and the Napier Complex, East Antarctica	Polar Geosci.	19	118 151
Hokada, T.	2007	Perrierite in sapphirine-quartz gneiss: Geochemical and geochronological features and implications for accessory-phase paragenesis of UHT metamorphism	Jour. Mineral. Petrol. Sic.	102	44 49
Suzuki et al.	2008	Early to middle Proterozoic dykes in the Mt. Riiser-Larsen area of the Napier Complex, East Antarctica: Tectonic implications as deduced from geochemical studies	Geol. Soc. Spec. Pub.	308	195 210
Yoshimura et al.	2008	Sapphirine + quartz association in garnet: Implication for ultrahigh-temperature metamorphism at Rundvågshetta, Lützow-Holm Complex, East Antarctica	Geol. Soc. Spec. Pub.	308	377 390
Hokada et al.	2008	Geodynamic evolution of Mt. Riiser-Larsen, Napier Complex, East Antarctica, with reference to the UHT mineral associations and their reaction relations	Geol. Soc. Spec. Pub.	308	253 282
Tsunogae et al.	2008	Carbonic fluids in ultrahigh-temperature metamorphism: Evidence from Raman spectroscopic study of fluid inclusions in granulites from the Napier complex, East Antarctica	Geol. Soc. Spec. Pub.	308	317 332
Ishizuka, H.	2008	Protoliths of the Napier Complex in Enderby Land, East Antarctica; an overview and implication for crustal formation of Archean continents	Jour. Mineral. Petrol. Sic.	103	218 225
Baba et al.	2010	SHRIMP zircon U-Pb dating of sapphirine-bearing granulite and biotite-hornblende gneiss in the Schirmacher Hills, East Antarctica: Implications for Neoproterozoic ultrahigh-temperature metamorphism predating the assembly of Gondwana	Jour. Geol.	118	621 639

Table S1. *Continued.*

Kawasaki et al.	2011	Osumilite and a spinel + quartz association in garnet-sillimanite gneiss from Rundvågshetta, Lützow-Holm Complex, East Antarctica	<i>Gondwana Res.</i>	19	430	445
Nakano et al.	2011	Inferred ultrahigh-temperature metamorphism of amphibolitized olivine granulite from the Sor Rondane Mountains, East Antarctica	<i>Polar Sci.</i>	5	345	359
Miyake & Hokada	2013	First find of ferropseudobrookite in quartz from Napier Complex, East Antarctica	<i>Eur. J. Mineral.</i>	25	33	38
Shimizu et al.	2013	Petrology and phase equilibrium modeling of sapphirine + quartz assemblage from the Napier Complex, East Antarctica: Diagnostic evidence for Neoproterozoic ultrahigh-temperature metamorphism	<i>Geosci. Frontiers</i>	4	655	666
Iwamura et al.	2013	Petrology and phase equilibrium modeling of spinel-sapphirine-bearing mafic granulite from Akarui point, Lützow-Holm complex, East Antarctica: Implications for the <i>P-T</i> path	<i>Jour. Mineral. Petrol. Sic.</i>	108	345	350
Kawasaki et al.	2013	Possible armalcolite pseudomorph-bearing garnet-sillimanite gneiss from Skallevikshalsen, Lützow-Holm Complex, East Antarctica: Implications for ultrahigh-temperature metamorphism	<i>Geol. Soc. Spec. Pub.</i>	383	135	167
Hokada et al.	2016	Peak and post-peak development of UHT metamorphism at Mather Peninsula, Rauer Islands: Zircon and monazite U-Th-Pb and REE chemistry constraints	<i>Jour. Mineral. Petrol. Sic.</i>	111	89	103
<i>India</i>						
Bose et al.	2000	Evolution of high-Mg-Al granulites from Sunkarametta, Eastern Ghats, India: Evidence for a lower crustal heating-cooling trajectory	<i>Jour. Metamorphic Geol.</i>	18	223	240
Sajeev et al.	2001	Ultrahigh-temperature stability of sapphirine and kornupine in Ganguvarpatti granulite, Madurai Block, southern India	<i>Gondwana Res.</i>	4	762	766
Satish-Kumar et al.	2002	Constraints on the application of carbon isotope thermometry in high- to ultrahigh-temperature metamorphic terranes	<i>Jour. Metamorphic Geol.</i>	20	335	350
Sarkar et al.	2003	Very high density CO ₂ associated with ultrahigh-temperature metamorphism in the Eastern Ghats granulite belt, India	<i>Geol.</i>	31	51	54
Tsunogae & Santosh	2003	Sapphirine and corundum-bearing granulites from Karur, Madurai block, southern India	<i>Gondwana Res.</i>	6	925	930
Sajeev & Osanai	2003	Geology of high- to ultrahigh-temperature granulites from central Madurai block, southern India; with emphasis on the evolution of Grt-Opx-Crd granulite	<i>Okayama Univ. Earth Sci.</i>	9	1	8
Sajeev et al.	2004	Ultrahigh-temperature metamorphism followed by two-stage decompression of garnet-orthopyroxene-sillimanite granulites from Ganguvarpatti, Madurai block, southern India	<i>Contrib. Mineral. Petrol.</i>	148	29	46
Tamashiro et al.	2004	Multistage orthopyroxene formation in ultrahigh-temperature granulites of Ganguvarpatti, southern India: Implications for complex metamorphic evolution during Gondwana assembly	<i>Jour. Mineral. Petrol. Sic.</i>	99	279	297
Tateishi et al.	2004	First report of sapphirine+quartz assemblage from southern India: Implications for ultrahigh-temperature metamorphism	<i>Gondwana Res.</i>	7	899	912
Santosh et al.	2004	First report of sapphirine-bearing rocks from the Palghat-Cauvery Shear Zone System, southern India	<i>Gondwana Res.</i>	7	620	626
Santosh et al.	2004	"Ultrahigh density" carbonic fluids in ultrahigh-temperature crustal metamorphism	<i>Jour. Mineral. Petrol. Sic.</i>	99	164	179
Morimoto et al.	2004	Spinel + Quartz association from the Kerala khondalites, southern India: Evidence for ultrahigh-temperature metamorphism	<i>Jour. Mineral. Petrol. Sic.</i>	99	257	278
Koshimoto et al.	2004	Sapphirine and corundum bearing ultrahigh temperature rocks from the Palghat-Cauvery Shear System, southern India	<i>Jour. Mineral. Petrol. Sic.</i>	99	298	310
Shimpo et al.	2006	First report of garnet-corundum rocks from southern India: Implications for prograde high-pressure (eclogite-facies?) metamorphism	<i>Earth Planet. Sci. Lett.</i>	242	111	129
Das et al.	2006	Garnet-spinel intergrowths in ultrahigh-temperature granulite, Eastern Ghats, India: Possible evidence of an early Tschermak-rich orthopyroxene during prograde metamorphism	<i>Amer. Mineral.</i>	91	375	384
Santosh et al.	2006	Geochronology of the khondalite belt of Trivandrum Block, Southern India: Electron probe ages and implications for Gondwana tectonics	<i>Gondwana Res.</i>	9	261	278
Santosh et al.	2006	The timing of ultrahigh-temperature metamorphism in Southern India: U-Th-Pb electron microprobe ages from zircon and monazite in sapphirine-bearing granulites	<i>Gondwana Res.</i>	10	128	155
Ishii et al.	2006	Ultrahigh-temperature metamorphism in the Achankovil Zone: Implications for the correlation of crustal blocks in southern India	<i>Gondwana Res.</i>	10	99	114
Prakash et al.	2006	Ultrahigh-temperature metamorphism in the Palni Hills South India: Insights from feldspar thermometry and phase equilibria	<i>Intern. Geol. Rev.</i>	48	619	638
Tsunogae & Santosh	2006	Spinel-sapphirine-quartz bearing composite inclusion within garnet from an ultrahigh-temperature pelitic granulite: Implications for metamorphic history and <i>P-T</i> path	<i>Lithos</i>	92	524	536
Bose et al.	2006	Exsolution textures in orthopyroxene in aluminous granulites as indicators of UHT metamorphism: New evidence from the Eastern Ghats Belt, India	<i>Lithos</i>	92	506	523
Prakash et al.	2007	Ultrahigh-temperature mafic granulites from Panimalai, south India: Constraints from phase equilibria and thermobarometry	<i>Jour. Asian Earth Sci.</i>	29	41	61
Tsunogae et al.	2007	Sodicgedrite in ultrahigh-temperature Mg-Al-rich rocks from the Palghat-Cauvery Shear Zone system, southern India	<i>Jour. Mineral. Petrol. Sic.</i>	102	39	43
Tadokoro et al.	2007	First report of the spinel + quartz assemblage from Kodaikanal in the Madurai block, southern India: Implications for ultrahigh-temperature metamorphism	<i>Intern. Geol. Rev.</i>	49	1050	1068
Sato & Santosh	2007	Titanium in quartz as a record of ultrahigh-temperature metamorphism: The granulites of Karur, southern India	<i>Mineral. Mag.</i>	71	143	154
Santosh et al.	2008	Electron microprobe dating of monazites from an ultrahigh-temperature granulite in Southern India: Implications for the timing of Gondwana assembly	<i>Jour. Mineral. Petrol. Sic.</i>	103	77	87
Tsunogae et al.	2008	Fluid characteristics of high- to ultrahigh-temperature metamorphism in southern India: A quantitative Raman spectroscopic study	<i>Precam. Res.</i>	162	198	211
Ohyama et al.	2008	CO ₂ -rich fluid inclusions in staurolite and associated minerals in a high-pressure ultrahigh-temperature granulite from the Gondwana suture in southern India	<i>Lithos</i>	101	177	190
Tsunogae et al.	2008	High-pressure and ultrahigh-temperature metamorphism at Komateri, northern Madurai Block, southern India	<i>Jour. Asian Earth Sci.</i>	33	395	413
Nishimiya et al.	2008	Petrology and fluid inclusions of garnet-clinopyroxene rocks from Paramati in the Palghat-Cauvery Shear Zone System, southern India	<i>Jour. Mineral. Petrol. Sic.</i>	103	354	360
Tadokoro et al.	2008	Metamorphic <i>P-T</i> path of the eastern Trivandrum Granulite Block, southern India: Implications for regional correlation of lower crustal fragments	<i>Jour. Mineral. Petrol. Sic.</i>	103	279	284
Sato et al.	2009	A petrologic and laser Raman spectroscopic study of sapphirine-spinel-quartz-Mg-staurolite inclusions in garnet from Kumiloothu, southern India: Implications for extreme metamorphism in a collisional orogen	<i>Jour. Geodynamics</i>	47	107	118
Kanazawa et al.	2009	The stability and origin of sodicgedrite in ultrahigh-temperature Mg-Al granulites: A case study from the Gondwana suture in southern India	<i>Contrib. Mineral. Petrol.</i>	157	95	110
Sajeev et al.	2009	Stability of pargasite during ultrahigh-temperature metamorphism: A consequence of titanium and REE partitioning?	<i>Amer. Mineral.</i>	94	535	545
Kondou et al.	2009	Sapphirine + quartz assemblage from Ganguvarpatti: Diagnostic evidence for ultrahigh-temperature metamorphism in central Madurai Block, southern India	<i>Jour. Mineral. Petrol. Sic.</i>	104	285	289
Nishimiya et al.	2009	Prograde and retrograde hōgbomites in sapphirine + quartz bearing Mg-Al rock from the Palghat-Cauvery Suture Zone, southern India	<i>Jour. Mineral. Petrol. Sic.</i>	104	319	323
Shimizu et al.	2009	Spinel + quartz assemblage in granulites from the Achankovil Shear Zone, southern India: Implications for ultrahigh-temperature metamorphism	<i>Jour. Asian Earth Sci.</i>	36	209	222
Santosh et al.	2009	Microstructurally controlled monazite chronology of ultrahigh-temperature granulites from southern India: Implications for the timing of Gondwana assembly	<i>Isl. Arc</i>	18	248	265
Nishimiya et al.	2010	Sapphirine + quartz corona around magnesian (XMg ~ 0.58) staurolite from the Palghat-Cauvery Suture Zone, southern India: Evidence for high-pressure and ultrahigh-temperature metamorphism within the Gondwana suture	<i>Lithos</i>	114	490	502
Shimizu & Tsunogae	2010	Field occurrence of cordierite gneiss and related ultrahigh-temperature granulites from the Achankovil Shear Zone, southern India	<i>Earth Evolution Sci.</i>	4	13	22

Table S1. *Continued.*

Tsunogae & Santosh	2010	Ultrahigh-temperature metamorphism and decompression history of sapphirine granulites from Rajapalaiyam, southern India: Implications for the formation of hot orogens during Gondwana assembly	<i>Geol. Mag.</i>	147	42	58
Santosh et al.	2010	Fluid characteristics of retrogressed eclogites and mafic granulites from the Cambrian Gondwana suture zone in southern India	<i>Contrib. Mineral. Petrol.</i>	159	349	369
Sato et al.	2010	Laser ablation ICP mass spectrometry for zircon U-Pb geochronology of ultrahigh-temperature gneisses and A-type granites from the Achankovil Suture Zone, southern India	<i>Jour. Geodynamics</i>	50	286	299
Tsunogae & Santosh	2011	Sapphirine+quartz assemblage from the Southern Granulite Terrane, India: Diagnostic evidence for ultrahigh-temperature metamorphism within the Gondwana collisional orogen	<i>Geol. Jour.</i>	46	183	197
Tsunogae & Santosh	2011	Fluids in high- to ultrahigh-temperature metamorphism along collisional sutures: Record from fluid inclusions	<i>Jour. Asian Earth Sci.</i>	42	330	340
Bose et al.	2011	India-Antarctica-Australia-Laurentia connection in the Paleoproterozoic-Mesoproterozoic revisited: Evidence from new zircon U-Pb and monazite chemical age data from the Eastern Ghats Belt, India	<i>Bull. Geol. Soc. Amer.</i>	123	2031	2049
Endo et al.	2012	Phase equilibrium modeling of incipient charnockite formation in NCKFMASHTO and MnNCKFMASHTO systems: A case study from Rajapalaiyam, Madurai Block, southern India	<i>Geosci. Frontiers</i>	3	801	811
Prakash et al.	2014	Reaction textures and metamorphic evolution of sapphirine-spinel-bearing and associated granulites from Diguva Sonaba, Eastern Ghats Mobile Belt, India	<i>Geol. Mag.</i>	57		
Koizumi et al.	2014	Petrology and zircon U-Pb geochronology of metagabbros from a mafic-ultramafic suite at Aniyapuram: Neorarchean to Early Paleoproterozoic convergent margin magmatism and Middle Neoproterozoic high-grade metamorphism in southern India	<i>Jour. Asian Earth Sci.</i>	95	51	64
Prakash et al.	2014	Reaction textures and metamorphic evolution of sapphirine-spinel-bearing and associated granulites from Diguva Sonaba, Eastern Ghats Mobile Belt, India	<i>Geol. Mag.</i>	152	316	340
<i>Sri Lanka</i>						
Osanaï et al.	2000	Geological fieldwork of the southwestern and central parts of Highland Complex, Sri Lanka during 1998-1999, with special reference to the highest grade metamorphic rocks	<i>Jour. Geosci. Osaka City Univ.</i>	43	227	247
Osanaï et al.	2003	Evolution of the highest-grade metamorphic rocks from central Highland Complex, Sri Lanka	<i>Proc. IGCP-440</i>		25	31
Sajeev & Osanaï	2004	Ultrahigh-temperature metamorphism (1150°C, 12 kbar) and multistage evolution of Mg-, Al-rich granulites from the central Highland Complex, Sri Lanka	<i>Jour. Petrol.</i>	45	1821	1844
Sajeev & Osanaï	2004	Osumilite and spinel+quartz from the Highland Complex, Sri Lanka: a case of cooling and decompression after ultrahigh-temperature metamorphism	<i>Jour. Mineral. Petrol. Sic.</i>	99	320	327
Osanaï et al.	2006	Metamorphic evolution of high-pressure and ultrahigh-temperature granulites from the Highland Complex, Sri Lanka	<i>Jour. Asian Earth Sci.</i>	28	20	37
Sajeev et al.	2007	Extreme crustal metamorphism during a neoproterozoic event in Sri Lanka: A study of dry mafic granulites	<i>Jour. Geol.</i>	115	563	582
Sajeev et al.	2010	Sensitive high-resolution ion microprobe U-Pb dating of prograde and retrograde ultrahigh-temperature metamorphism as exemplified by Sri Lankan granulites	<i>Geol.</i>	38	971	974
Santosh et al.	2014	Neoproterozoic crustal evolution in Sri Lanka: Insights from petrologic, geochemical and zircon U-Pb and Lu-Hf isotopic data and implications for Gondwana assembly	<i>Precam. Res.</i>	255	1	29
Takamura et al.	2015	Petrology and zircon U-Pb geochronology of metagabbro from the Highland Complex, Sri Lanka: Implications for the correlation of Gondwana suture zones	<i>Jour. Asian Earth Sci.</i>	113	826	841
Osanaï et al.	2016	UHT granulites of the Highland Complex, Sri Lanka I: Geological and petrological background	<i>Jour. Mineral. Petrol. Sic.</i>	111	145	156
Osanaï et al.	2016	UHT granulites of the Highland Complex, Sri Lanka II: Geochronological constraints and implications for Gondwana correlation	<i>Jour. Mineral. Petrol. Sic.</i>	111	157	169
Dharmapriya et al.	2016	Distinct metamorphic evolution of alternating silica-saturated and silica-deficient microdomains within garnet in ultrahigh- temperature granulites: an example from Sri Lanka	<i>Geosci. Frontiers</i>	5	in press	
<i>Vietnam, China, Japan</i>						
Osanaï et al.	1998	Sapphirine-bearing granulites and related high-temperature metamorphic rocks from the Higo metamorphic terrane, west-central Kyushu, Japan	<i>Jour. Metamorphic Geol.</i>	16	53	66
Osanaï et al.	2001	Ultrahigh-temperature pelitic granulites from Kontum Massif, central Vietnam: Evidence for East Asian juxtaposition at ca.250 Ma	<i>Gondwana Res.</i>	4	720	723
Nakano et al.	2004	Decompression process of mafic granulite from eclogite to granulite facies under ultrahigh-temperature condition in the Kontum Massif, Central Vietnam	<i>Jour. Mineral. Petrol. Sic.</i>	99	242	256
Osanaï et al.	2004	Permo-Triassic ultrahigh-temperature metamorphism in the Kontum Massif, Central Vietnam	<i>Jour. Mineral. Petrol. Sic.</i>	99	225	241
Osanaï et al.	2004	Metamorphic evolution of high-pressure and ultrahigh-temperture granulites from the Kontum Massif, central Vietnam	<i>Gondwana Res.</i>	7	1360	1363
Nakano et al.	2004	Finding of UHP metamorphic rocks from the Kontum Massif, central Vietnam	<i>Gondwana Res.</i>	7	1350	1352
Tran Ngoc Nam et al.	2004	Permo-Triassic ultrahigh-temperature metamorphism and continental collision in the Kontum Massif?	<i>Jour. Geol. Vietnam, Ser. A</i>	285	1	8
Osanaï et al.	2005	Recent progress in metamorphic process of the Kontum Massif, central Vietnam	<i>Geol. .Mineral Res. Vietnam</i>	9	171	186
Osanaï et al.	2006	The Higo metamorphic complex in Kyushu, Japan as the fragment of Permo - Triassic metamorphic complexes in East Asia	<i>Gondwana Res.</i>	9	152	166
Santosh et al.	2007	Discovery of sapphirine-bearing Mg-Al granulites in the North China Craton: Implications for Paleoproterozoic ultrahigh temperature metamorphism	<i>Gondwana Res.</i>	11	263	285
Nakano et al.	2007	Multiple breakdown and chemical equilibrium of silicic clinopyroxene under extreme metamorphic conditions in the Kontum Massif, central Vietnam	<i>Amer. Mineral.</i>	92	1844	1855
Osanaï et al.	2008	Collision zone metamorphism in Vietnam and adjacent South-eastern Asia: Proposition for Trans Vietnam Orogenic Belt	<i>Jour. Mineral. Petrol. Sci.</i>	103	226	241
Santosh et al.	2008	Carbonic metamorphism at ultrahigh-temperatures: Evidence from North China Craton	<i>Earth Planet. Sci. Lett.</i>	266	149	165
Santosh et al.	2009	Counterclockwise exhumation of a hot orogen: The Paleoproterozoic ultrahigh-temperature granulites in the North China Craton	<i>Lithos</i>	110	140	152
Tsunogae et al.	2011	Ultrahigh-temperature metamorphism in Daqingshan, Inner Mongolia Suture Zone, North China Craton	<i>Gondwana Res.</i>	20	36	47
Liu et al.	2012	Paleoproterozoic granulites from Heling'er: Implications for regional ultrahigh-temperature metamorphism in the North China Craton	<i>Lithos</i>	148	54	70
Santosh et al.	2012	Paleoproterozoic ultrahigh-temperature granulites in the North China Craton: Implications for tectonic models on extreme crustal metamorphism	<i>Precam. Res.</i>	222-223	77	106
Shimizu et al.	2013	Phase equilibrium modelling of Palaeoproterozoic ultrahigh-temperature sapphirine granulite from the Inner Mongolia Suture Zone, North China Craton: Implications for counterclockwise <i>P-T</i> path	<i>Geol. Jour.</i>	48	456	466
Yang et al.	2014	First report of Paleoproterozoic incipient charnockite from the North China Craton: Implications for ultrahigh-temperature metasomatism	<i>Precam. Res.</i>	243	168	180
Yang et al.	2014	Ultrahigh-temperature metamorphism under isobaric heating: New evidence from the North China Craton	<i>Jour. Asian Earth Sci.</i>	95	2	16
Owada et al.	2016	Late Permian plume-related magmatism and tectonothermal events in the Kontum Massif, central Vietnam	<i>Jour. Mineral. Petrol. Sic.</i>	111	181	195
<i>Africa</i>						
Tsunogae et al.	2004	Ultrahigh-temperature metamorphism of the southern marginal zone of the Archean Limpopo belt, South Africa	<i>Jour. Mineral. Petrol.</i>	99	213	224
Tsunogae et al.	2006	Corundum + quartz and Mg-staurolite bearing granulite from the Limpopo Belt, southern Africa: Implications for a <i>P-T</i> path	<i>Lithos</i>	92	576	587
Rakotonandrasana et al.	2010	Widespread occurrences of h��g��bomite-2N2S in UHT metapelites from the Betroka belt, southern Madagascar: Implications on melt or fluid activity during regional metamorphism	<i>Jour. Petrol.</i>	51	869	895

Table S1. *Continued.*

Tsunogae & van Reenen	2011	High-pressure and ultrahigh-temperature granulite-facies metamorphism of Precambrian high-grade terranes: Case study of the Limpopo Complex	<i>Mem. Geol. Soc. Amer.</i>	207	107	124
Tsunogae & van Reenen	2014	High- to ultrahigh-temperature metasomatism related to brine infiltration in the Neoproterozoic Limpopo Complex: Petrology and phase equilibrium modeling	<i>Precam. Res.</i>	253	157	170
<i>Scotland</i>						
Baba, S.	1998	Proterozoic anticlockwise <i>P-T</i> path of the Lewisian Complex of South Harris, Outer Hebrides, NW Scotland	<i>Jour. Metamorphic Geol.</i>	16	819	841
Baba, S.	1999	Sapphirine-bearing orthopyroxene-kyanite/sillimanite granulites from South Harris, NW Scotland: Evidence for Proterozoic UHT metamorphism in the Lewisian	<i>Contrib. Mineral. Petrol.</i>	136	33	47
Baba, S.	2002	Tectono-metamorphic Events in the North Atlantic Region in the Palaeoproterozoic from the View Point of High-grade Metamorphic Rocks in the Lewisian Complex, South Harris, NW Scotland	<i>Gondwana Res.</i>	5	757	770
Baba, S.	2003	Two stages of sapphirine formation during prograde and retrograde metamorphism in the palaeoproterozoic Lewisian Complex in South Harris, NW Scotland	<i>Jour. Petrol.</i>	44	329	354
Baba, S.	2004	Palaeoproterozoic UHT metamorphism in the Lewisian complex and North Atlantic Region	<i>Jour. Mineral. Petrol. Sic.</i>	99	202	212
Baba et al.	2012	New SHRIMP U-Pb zircon ages and CHIME monazite ages from South Harris granulites, Lewisian Complex, NW Scotland: Implications for two stages of zircon formation during Palaeoproterozoic UHT metamorphism	<i>Precam. Res.</i>	200-203	104	128
<i>Experiments</i>						
Motoyoshi et al.	1993	Experimental study of the high-pressure stability limit of osumilite in the system $K_2O-MgO-Al_2O_3-SiO_2$: implications for high-temperature granulites	<i>Eur. J. Mineral.</i>	5	439	445
Hensen & Osanai	1994	Experimental study of dehydration melting of F-bearing biotite in model pelitic compositions.	<i>Miner. Mag.</i>	58A	410	411
Shaw & Arima	1998	A corundum-quartz assemblage from the Eastern Ghats granulite belt, India: evidence for high <i>P-T</i> metamorphism?	<i>Jour. Metamorphic Geol.</i>	16	189	196
Hokada & Arima	2001	Experimental constraints on partial melting under UHT and dry conditions of quartz-feldspathic rock in the Napier Complex, East Antarctica	<i>Polar Geosci.</i>	14	39	52
Das et al.	2001	Stability of osumilite coexisting with spinel solid solution in metapelitic granulites at high oxygen fugacity	<i>Amer. Mineral.</i>	86	1423	1434
Das et al.	2003	An experimentally constrained petrogenetic grid in the silica-saturated portion of the system KFMASH at high temperatures and pressures	<i>Jour. Petrol.</i>	44	1055	1075
Sato et al.	2004	Experimental constraints of metamorphic pressure and temperature, and phase relations of a phlogopite-bearing orthopyroxene granulite from Howard hills, Napier complex, East Antarctica	<i>Jour. Mineral. Petrol. Sic.</i>	99	191	201
Das et al.	2006	Experimental data on Fe and Mg partitioning between coexisting sapphirine and spinel: An empirical geothermometer and its application	<i>Eur. J. Mineral.</i>	18	49	58
Sato et al.	2008	Fe^{2+} -Mg partitioning experiments between orthopyroxene and spinel using ultrahigh-temperature granulite from the Napier Complex, East Antarctica	<i>Geol. Soc. Spec. Pub.</i>	308	431	447
Kawasaki & Osanai	2008	Empirical thermometer of TiO_2 in quartz for ultrahigh-temperature granulites of East Antarctica	<i>Geol. Soc. Spec. Pub.</i>	308	419	430
Kawasaki & Ishizuka	2008	Experimental study of Fe^{3+} solubility in cristobalite and its application to a metamorphosed quartz-magnetite rock from Mt. Riiser-Larsen area, Napier Complex, East Antarctica	<i>Jour. Mineral. Petrol.</i>	103	255	265