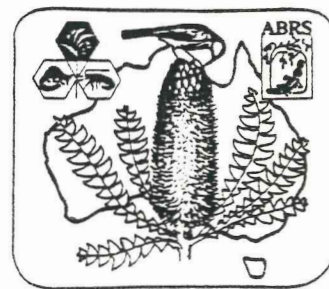


BANKSIA ATLAS

INTERIM MAP SERIES I



EDITED BY A. TAYLOR

JULY 1985



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Bankia atlas : interim map series I /
edited by A. Taylor ; compiled by A.
Taylor, S. Wilson, K. Palmer

Western Australian Wildlife Research Centre
P.O. Box 51, Wanneroo, 6065



ILLUSTRATIONS: B. chamaephyton (front cover) - S. Patrick
B. grossa (inside front cover) - M. Pieroni

BANKSIA ATLAS

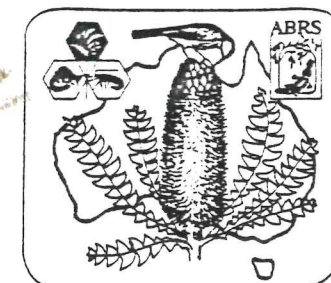
INTERIM MAP SERIES I

JULY 1985

EDITED BY A. TAYLOR

COMPILED BY A. TAYLOR, S. WILSON, K. PALMER

WESTERN AUSTRALIAN WILDLIFE RESEARCH CENTRE
P.O. Box 51, WANNEROO, 6065



The Banksia Atlas is the first Australia-wide plant-mapping project to be undertaken using volunteer contributors. It is programmed to run for three years (1984-86). The project aims to involve interested persons throughout Australia in recording information on the distribution, habitat and biology of banksias. Information is sorted and analysed by computer enabling rapid retrieval of desired tabulations and maps for any particular species.

One of the main outcomes of the project will be up-to-date maps on the abundance and distribution of all Banksia species throughout Australia. Such maps are the first stage in understanding the environmental factors limiting species distribution. They are also an extremely important tool enabling immediate assessment of the conservation status of a species by observing its distribution both throughout its range and within protected areas such as National Parks/Nature Reserves. Possible threats to a species' existence by, for example new land releases or mining ventures, can be quickly identified and appropriate action taken where necessary.

Information gained on the habitat and biology of banksias including pollination mechanisms and the response of different species to fire, will be useful in preparing reserve management plans, particularly when the fragile populations of rare or endangered species need to be safeguarded.

Apart from these valuable functions it is also hoped that the Atlas will provide a meaningful and enjoyable reason for contributors to travel in the bush and to learn more about their countryside and native plants first hand.

The Banksia Atlas is funded jointly by the Australian Biological Resources Study and the Western Australian Department of Fisheries and Wildlife (now the Department of Conservation and Land Management).

NOTES FOR CONTRIBUTORS ON SERIES 1 MAPS

The first collection of maps is based on 1 279 records received before Mar. 1st 1985 from the following 124 contributors.

John Adams	(6)	WA	Linda King	(1)	NSW
Laurie & Joan Adams	(11)	NSW	Stephen & Meg Le Fanu	(4)	WA
Jennie Allen	(125)	WA	Pattie Leighton	(9)	WA
Mr & Mrs Allen	(24)	WA	Malcolm Lewis	(4)	WA
Robin Andersson	(3)	WA	Noni Mammatt	(2)	WA
Geoff & Beryl Austin	(5)	WA	Cyril Marshall	(5)	NSW
APPM Forest Products	(3)	TAS	Debbie Martin	(5)	WA
Bob & Barbara Backhouse	(2)	WA	Peter Mawson	(27)	WA
Diane Baker	(2)	WA	Marjorie May	(13)	ACT
Greg Barrett	(14)	WA	Ross & Bev McGuinness	(12)	WA
Tony Bean	(7)	QLD	Kevin Mills	(28)	NSW
Jeff Beard	(4)	WA	Graham Mee	(6)	NSW
Don & Barbara Bellairs	(5)	WA	Mr & Mrs A. Moore	(21)	WA
Jo Benyon	(7)	ACT	Noel Moore	(2)	NSW
Doris & Vic Blampey	(1)	WA	R. Mumford	(19)	WA
John Boyle	(36)	WA	Anna Napier	(19)	WA
Keith Bradby	(35)	WA	Clive & Wendy Napier	(8)	WA
Mary Bremner	(15)	WA	Alan Notley	(1)	WA
Lola Broadhurst	(3)	WA	Karin & Michael Palmer	(14)	WA
Clive Brownsea	(7)	VIC	Rae & Rodney Papenfus	(1)	WA
Neil Burrows	(7)	WA	Marlene Patersen	(7)	WA
Jim Carpenter	(7)	TAS	Grant Pearson	(8)	WA
Bruce Champion	(38)	TAS	Tony Phillips	(3)	VIC
John Chilvers	(20)	WA	Margaret Pieroni	(2)	WA
Lyn Clarke	(5)	WA	Frank & Joy Phillips	(3)	WA
Alison Clifton	(1)	WA	Terry Powell	(6)	WA
Diana Cordiner	(1)	NSW	Lois Pricor	(2)	VIC
Doug Coughran	(9)	WA	Martin Roberts	(2)	WA
Ray Cranfield	(1)	WA	Victor Robertson	(9)	QLD
Christine Creighton	(23)	WA	Ed Robinson	(1)	WA
Eileen Croxford	(8)	WA	Alf Salkin	(54)	VIC
Gay Crowley	(3)	QLD	Pam Sanderson	(3)	WA
Alan Danks	(10)	WA	George Schmidt	(7)	WA
Doreen Davidson	(10)	WA	Mr & Mrs J. Scott	(2)	WA
Steve Dawson	(4)	WA	R. Scott	(1)	WA
Harry DeJong	(22)	WA	R. Shoosmith	(8)	WA
Graham Edwards	(16)	WA	Ed Smidt	(7)	WA
Ian & Gwynneth Fardon	(1)	NSW	Dave Sieber	(25)	WA
Charles Felton	(5)	WA	Mr & Mrs B.H. Smith	(9)	WA
Lee Fernie	(6)	WA	Peter Smith	(7)	WA
Howard & Dorrie Gibbs	(8)	WA	Ralph Smith	(3)	WA
Brendon Gill	(1)	NSW	Margaret Smith	(1)	NSW
Chris Goodsell	(5)	WA	Lois & Andrew Sourry	(6)	NSW
Mal Graham	(18)	WA	Helen & Mick Statham	(5)	TAS
Lois Grover	(1)	WA	Jim Steenson	(1)	NSW
Linley Gueho	(6)	WA	Norm & Jane Stevens	(2)	WA
Mark Gunson	(1)	WA	Trevor Stoneman	(2)	WA
Murray Haby	(36)	VIC	Tony Tapper	(12)	WA
Mr & Mrs Hackling	(5)	WA	Anne Taylor	(46)	WA
Roger Hall	(18)	WA	Paul Taylor	(8)	QLD
Annette Hallpike	(81)	VIC	Helen Taylor	(14)	WA
Brenda Hammersly	(16)	WA	Ron Tompson	(4)	NSW
Paul Harris	(1)	QLD	Doug Twaits	(8)	VIC
Roger Hnatiuk	(6)	ACT	Graham Velterop	(16)	WA
Harald Hoffman	(17)	WA	Mr & Mrs Van Rijnswood	(1)	WA
Jean Hooper	(3)	WA	Mr & Mrs B. Ward	(3)	NSW
Bert & Alice Humphreys	(2)	WA	Stan Webster	(1)	WA
David James	(9)	WA	A. Wheeler	(2)	ACT
Laurence Johnson	(18)	NSW	Eleanor Williams	(2)	WA
Rhoda & Harry Jeavons	(2)	NSW	Mae Willmot	(1)	NSW
Wendy Kapelle	(1)	WA	Eric Williamson	(8)	QLD
Ian Kealley	(20)	WA	Meri Wood	(2)	NSW

The maps that follow are in two separate groups - 1. West Australia
2. Eastern States. Within each group they are listed in alphabetical
order.

WEST AUSTRALIA

A reasonable coverage has been achieved especially for some of the more common banksias eg. B. grandis, B. attenuata. The following banksias are very poorly represented - B. ashbyi, B. burdettii, B. elegans, B. grossa, B. hookeriana, B. incana, B. lanata, B. laricina, B. lindleyana, B. meisneri var. meisneri, B. meisneri var. ascendens, B. micrantha, B. petiolaris, B. sceptum, B. verticillata, B. victoriae.

For B. audax, B. cuneata, B. lullfitzii, B. scabrella and B. sphaerocarpa var. dolichostyla, no records at all have been received. While most of these are rare plants with very restricted distributions, the lack of records for B. audax is surprising.

Areas particularly in need of attention are:

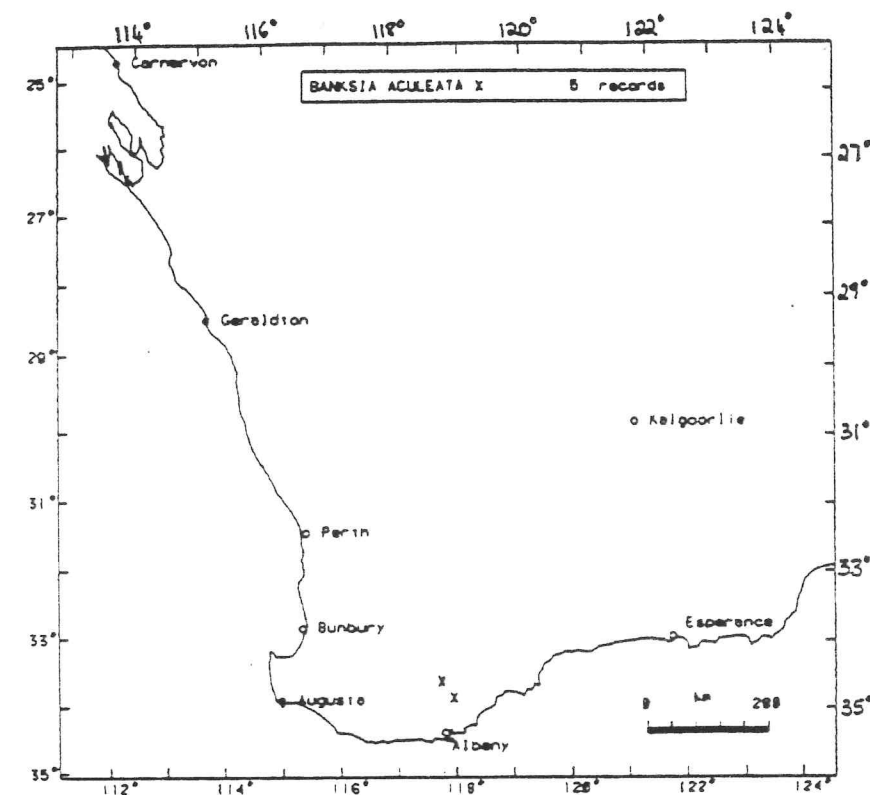
1. The heathlands north of Perth, particularly from Eneabba northwards to Shark Bay.
2. Central and southern Wheatbelt inland.
3. Darling Range south of Perth.
4. Southern Forest between Bunbury and Albany.
5. Walpole area.
6. Between Hopetoun and Esperance along the coast.
7. Eastwards from Duke of Orleans Bay along the coast.

EASTERN STATES

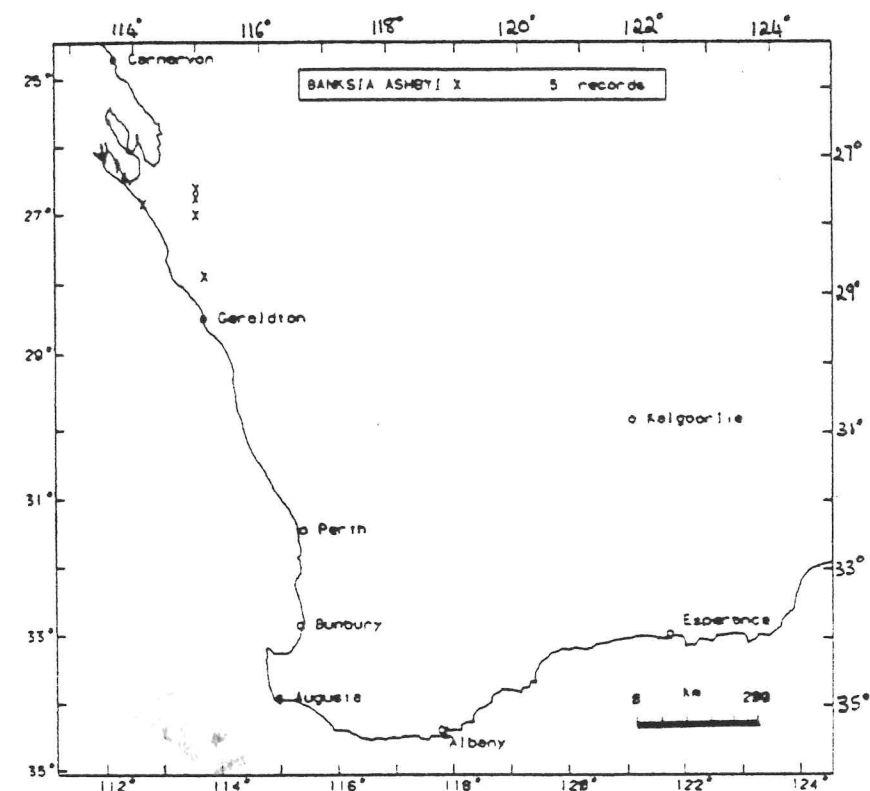
In contrast to the situation in West Australia, there has been very inadequate coverage of all eastern states banksias. During the period covered by the maps (July '84 - March '85) almost the entire emphasis was placed on Western Australia, with little recruitment or publicity taking place in other States. Since March 1st '85, the situation has reversed with considerable effort being put into encouraging volunteers in the eastern states. It is expected that the next set of maps produced (Series II) will show a much better representation of eastern banksias.

Although some eastern banksias are much better represented than others, it is clear that all are in need of much greater coverage. There are no records at all for B. conferta var. penicillata, B. ericifolia var. macrantha, B. plagiocarpa and B. dentata.

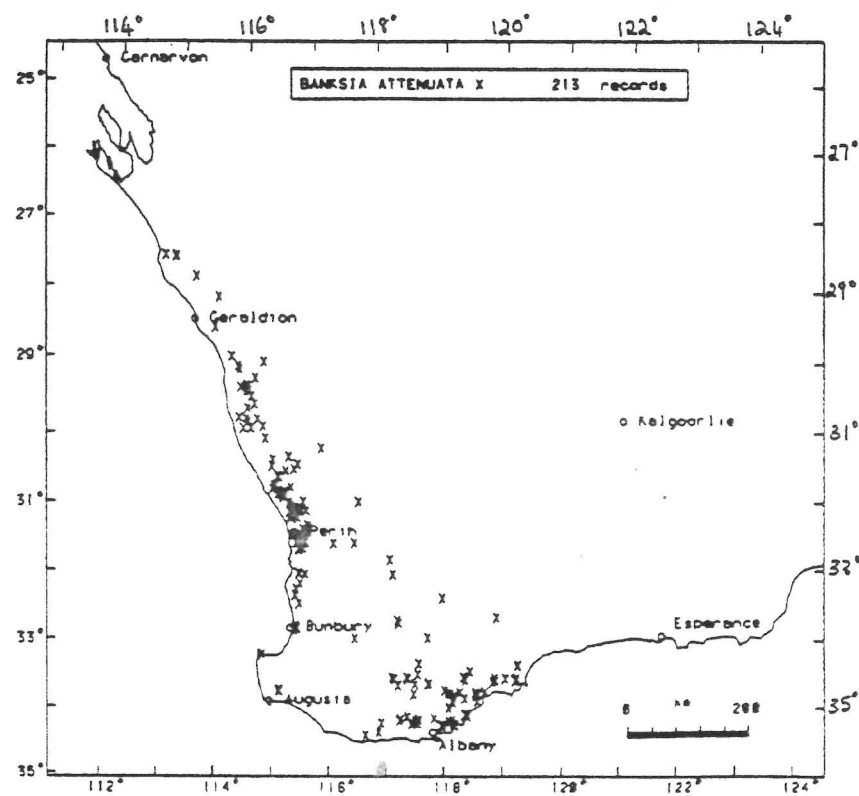
The delay in publication of these maps is regretted. The entry of data onto the computer has proved to be more prone to error than was anticipated. Correcting typist errors is very time consuming! Hopefully Series II maps should be a lot more up to date.



B. aculeata - four records from the same locality in the Stirling Range (A. Taylor, T. Tapper, J. Boyle, J. Chilvers). The fifth is a new locality from south of the Stirling Range (K. Bradby).

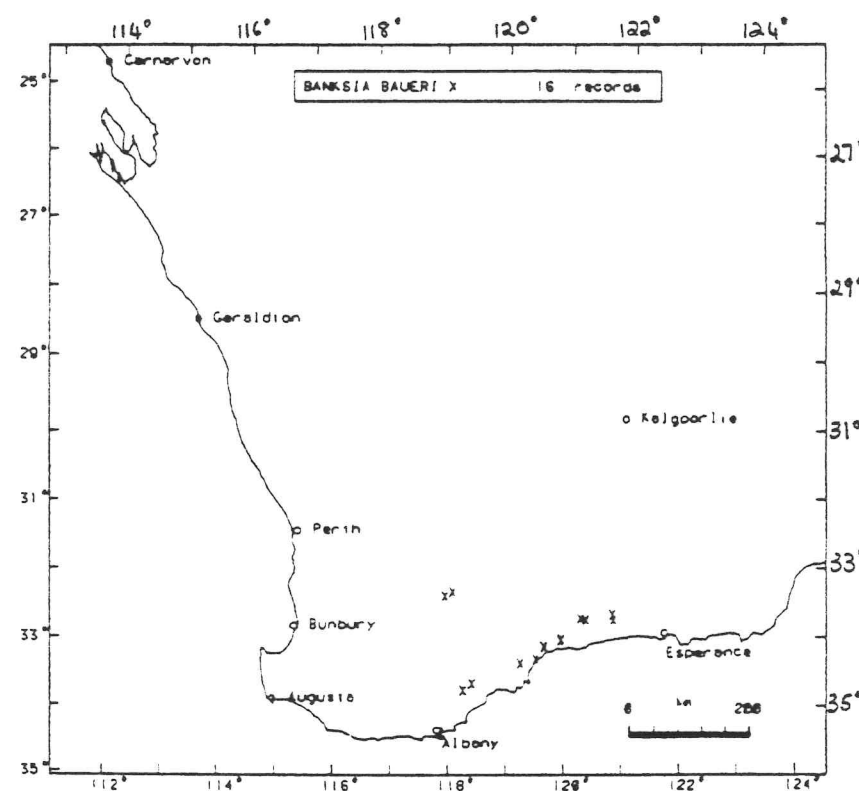


B. ashbyi - only five sight records (A. Moore 3; G. Schmidt 1; I. Kealley (1) extending from 14 km south of Billabong Roadhouse to 15 km north of Northampton, all on the N.W. Coastal Highway.

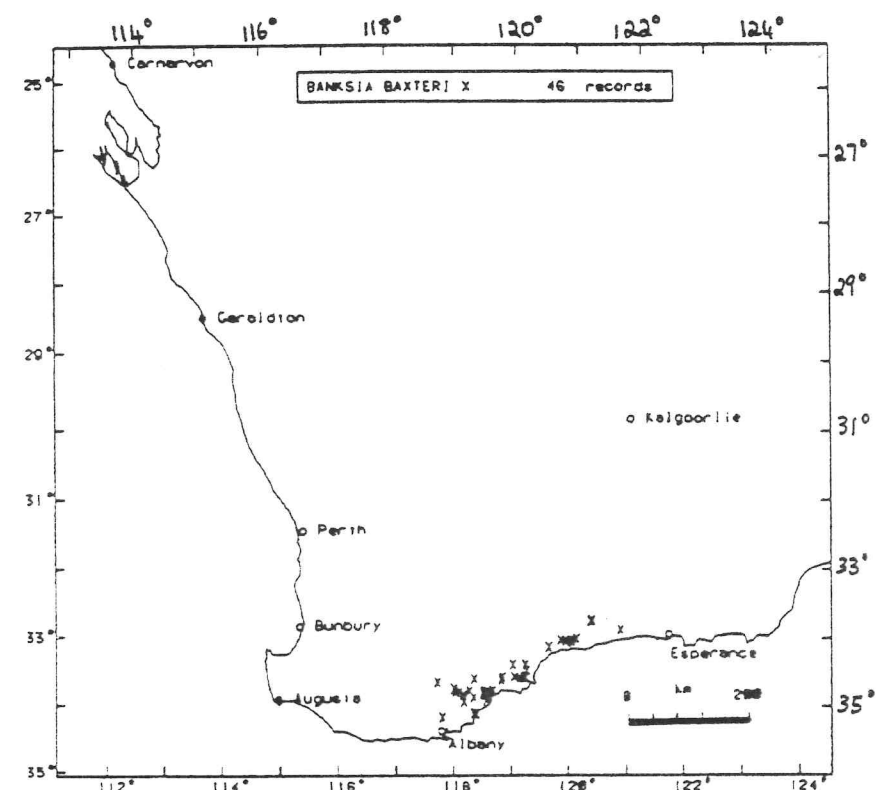


B. attenuata - a good number of sight records from Kalbarri (D. & B. Bellairs) to Augusta (J. Allen) and eastwards to the Fitzgerald River National Park (D. Martin, G. Velterop), extending inland to Piawanning (C. Felton), Meckering (Mr and Mrs Hackling) and between Pingrup and Lake Magenta (P. Mawson).

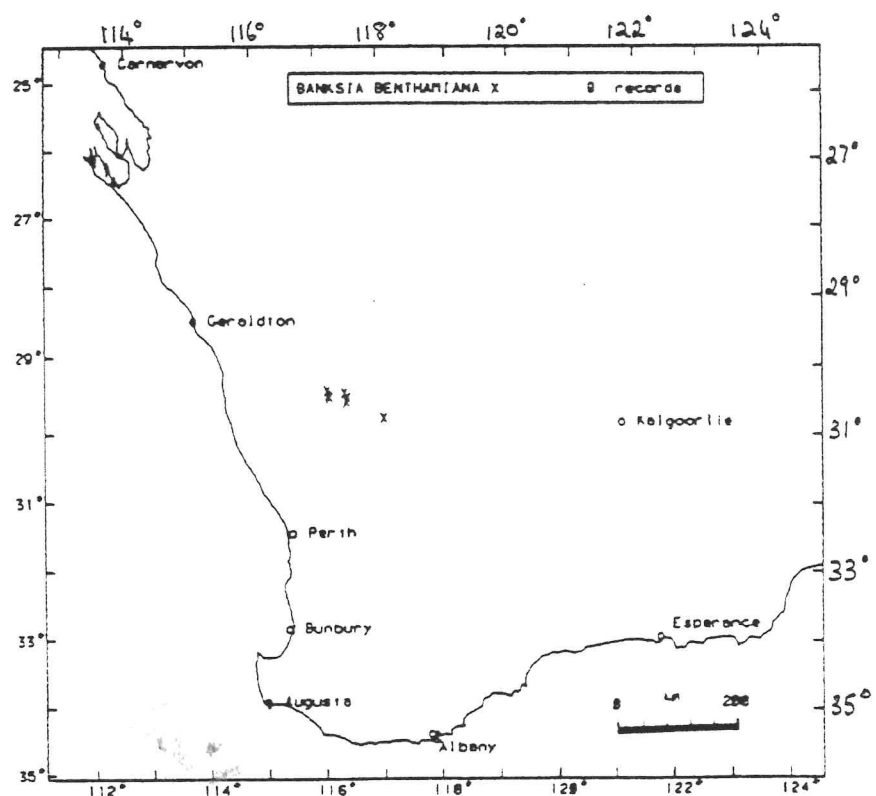
B. audax - no sight records received for this species.



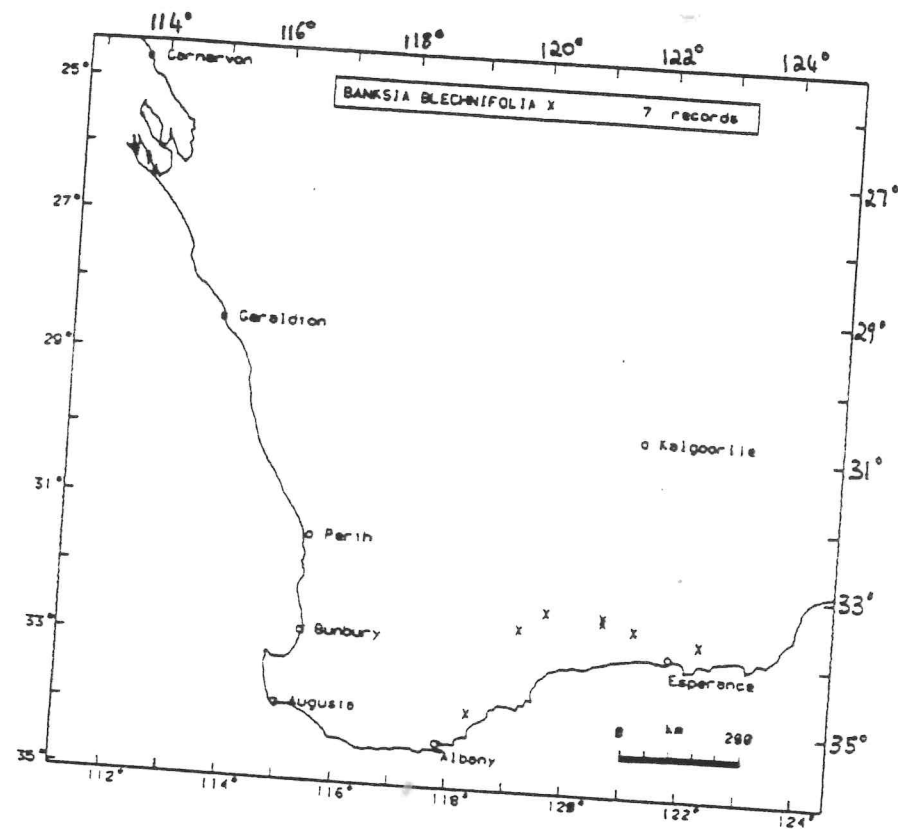
B. baueri - two apparently disjunct populations - one along the south coast from south east of the Stirling Range (P. Sanderson) to Munglinup (A. Napier), the other west of Lake Grace (P. Mawson, A. Napier).



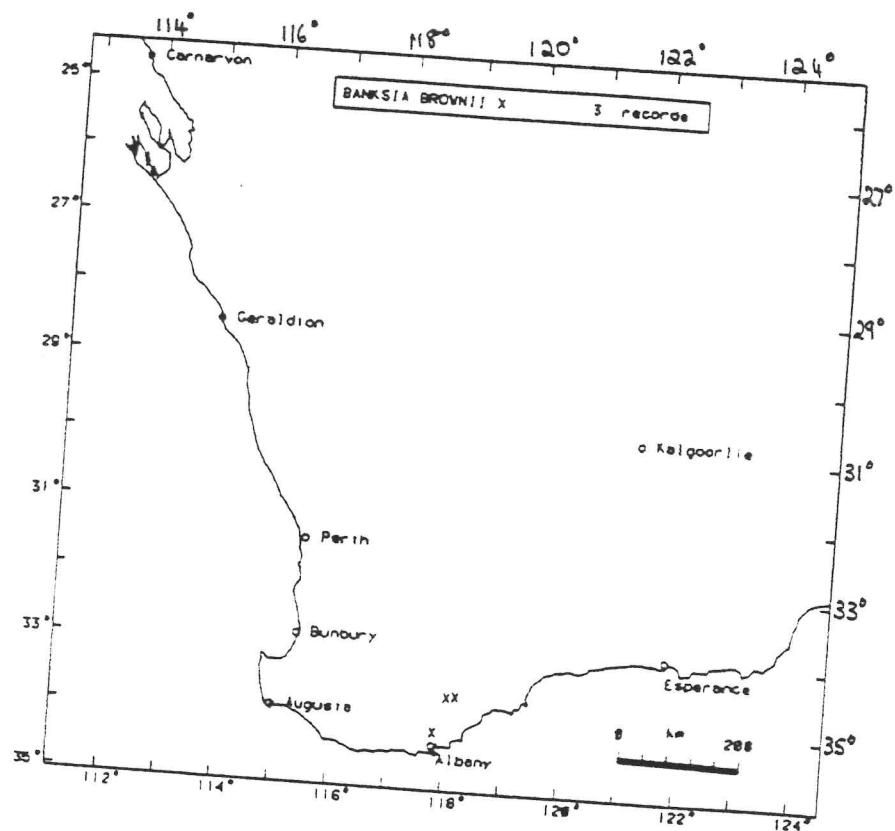
B. baxteri - near the south coast from South Stirling (M. Graham) to east of Munglinup (G. Edwards). The furthest inland occurrence is in the Stirling Range (J. Boyle) otherwise always within 50 km of the coast.



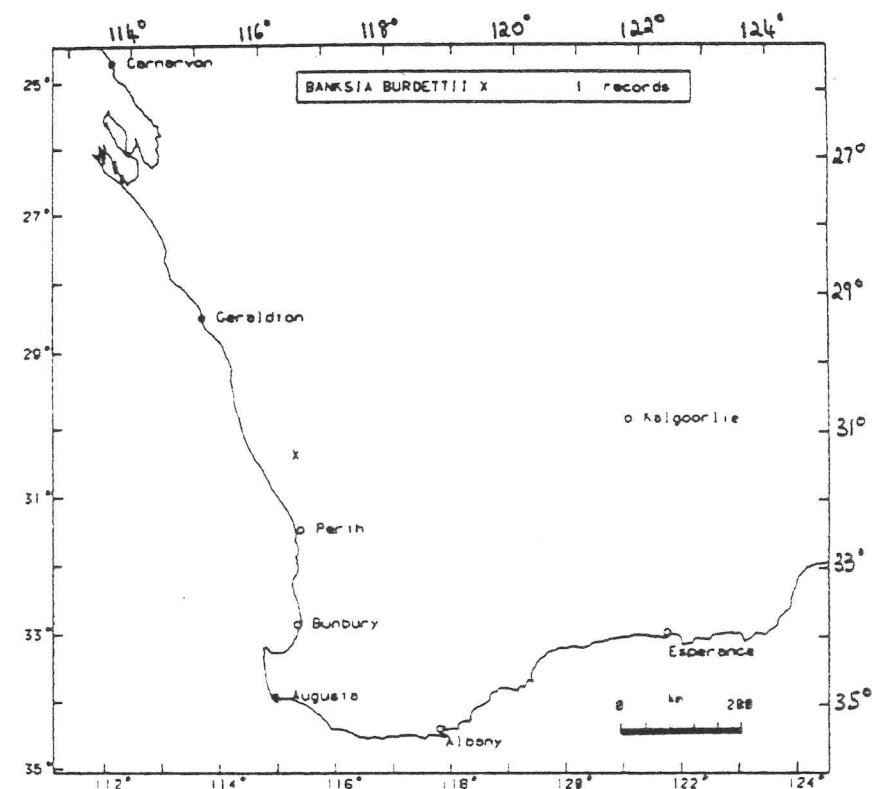
B. benthamiana - 8 of the 9 sight records are around Wubin (Mr and Mrs Smith). The ninth is from near Kulja (H. Hoffman). Herbarium records indicate another population based around Mullewa - volunteers please investigate.



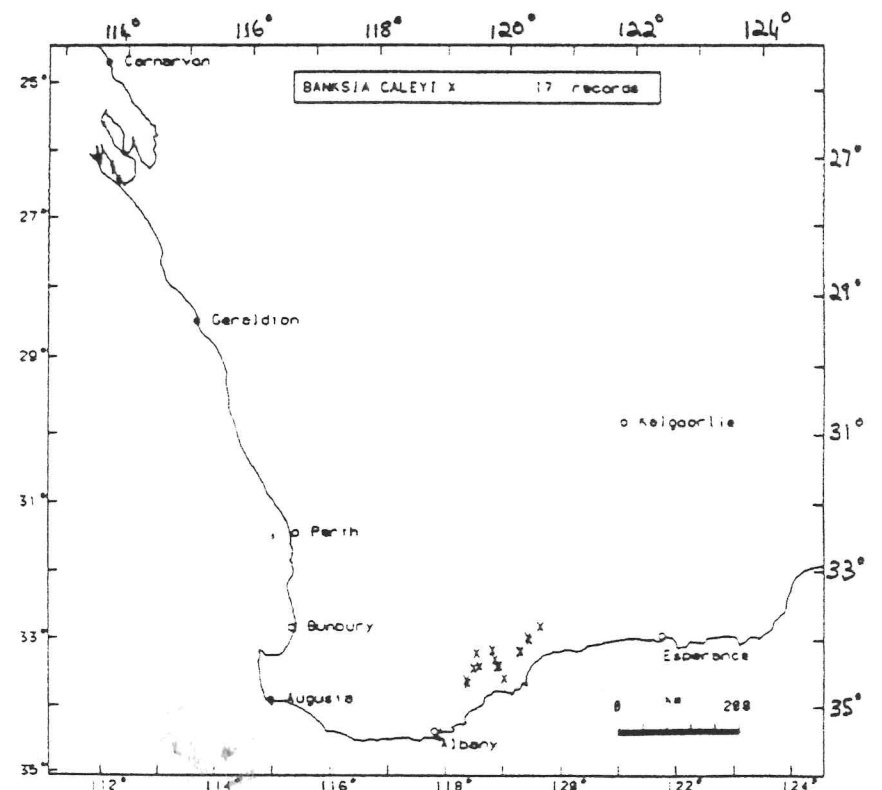
B. blechnifolia - 7 records extending from Lake Magenta (R. & B. McGuinness) eastwards to near Condingup (I. Kealley). Previously B. blechnifolia had not been recorded east of Esperance.



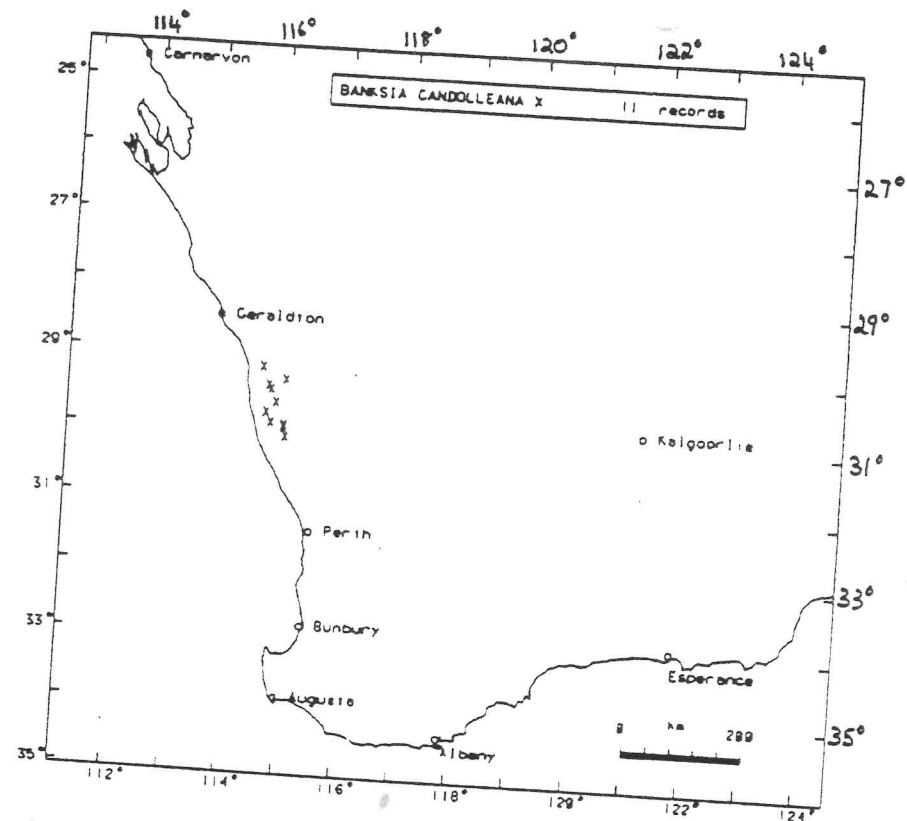
B. brownii - only 3 sight records, 2 from the Stirling Range (A. Taylor) and one from north of Albany (M. Graham). Surely Albany volunteers know of some more localities?



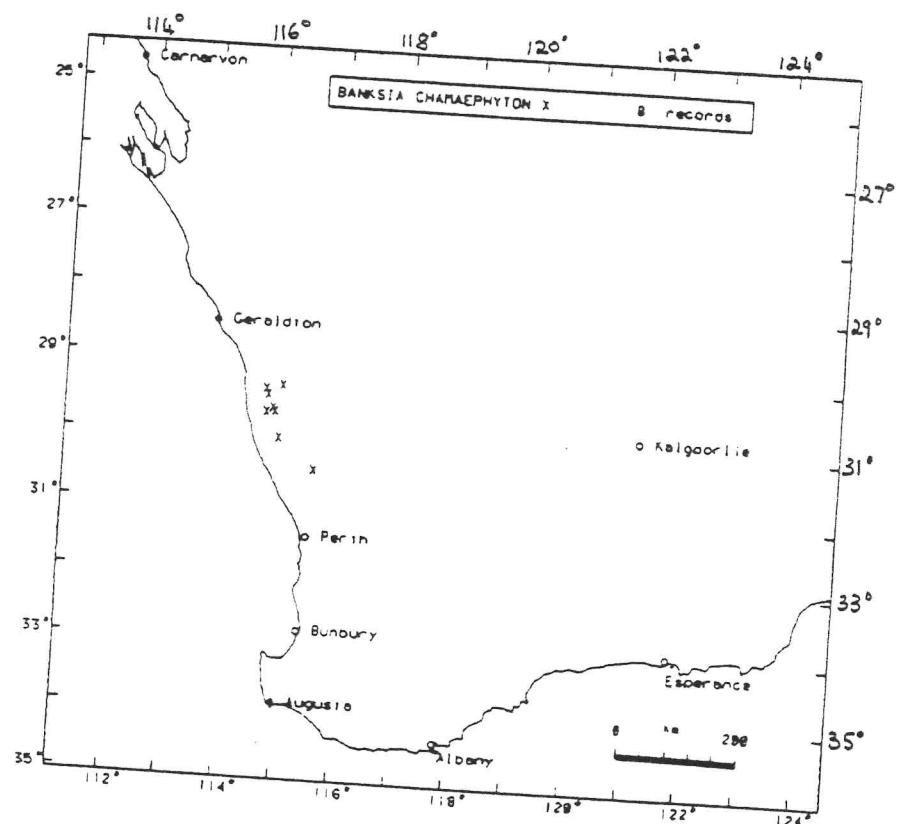
B. burdettii - only 1 sight record from north east of Regans Ford (D. Coughran). B. burdettii is being considered for inclusion on the list of Rare and Endangered Plants, W.A. More sight records are urgently needed to ascertain its true status.



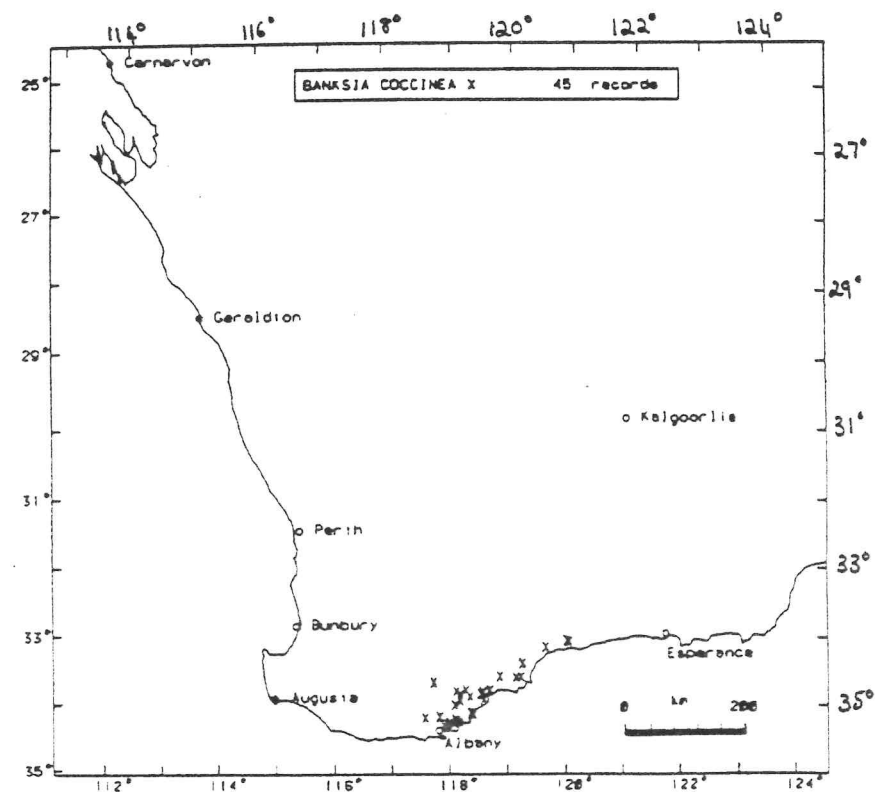
B. caleyi - 17 records extending from north east of the Stirling Range (P. Smith) to West River (A. Napier). Herbarium records also suggest an inland location near Pingrup - volunteers please investigate.



B. candolleana - extends from Arrowsmith (G. Barrett) south to the Hill River area (G. Barrett). Herbarium records indicate that this species occurs as far south as Moore River National Park - volunteers please investigate.



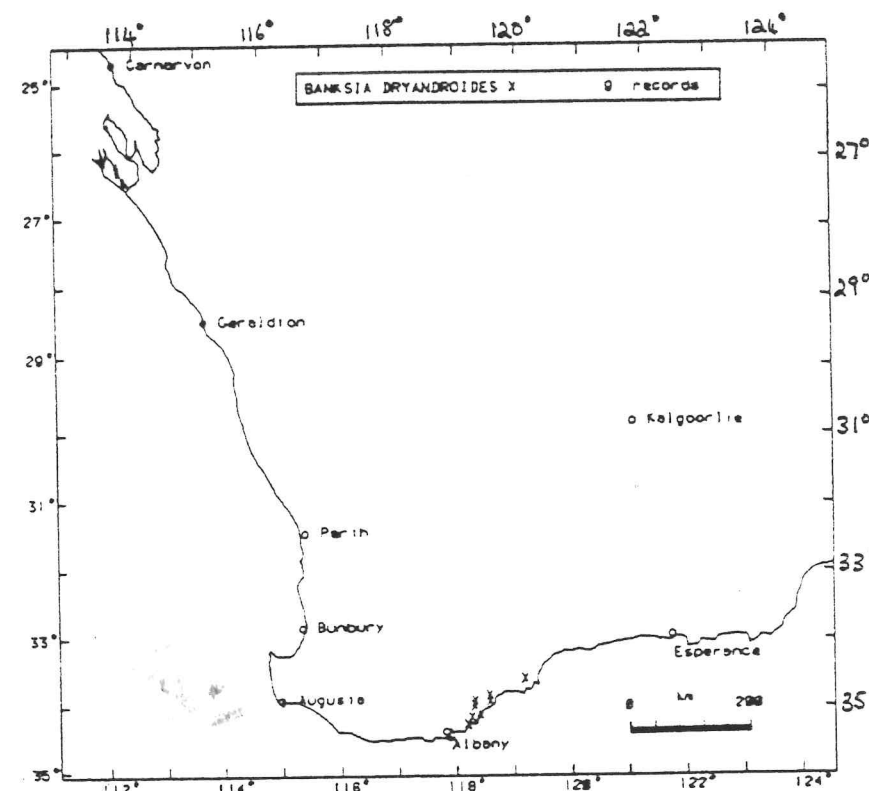
B. chamaephyton - 8 sight records extending from east of Eneabba (G. Barrett) to Mogumber (G. Barrett). This banksia is currently on the list of Rare and Endangered Plants, W.A. However, recent indications are that it is more common than previously thought. More records are needed to assess its true status.



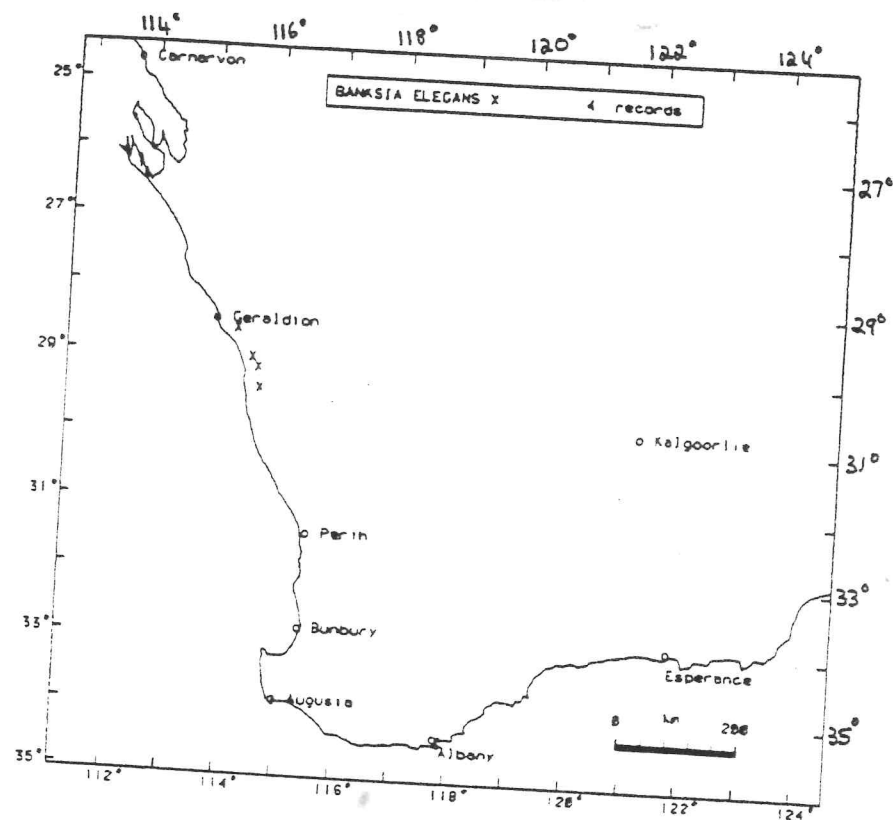
B. coccinea - a good number of sight records extending from near Denmark (R. Mumford) to the Stirling Range and eastwards to Hopetoun (H. Taylor). Herbarium records indicate that B. coccinea extends further east - volunteers please investigate.

B. cuneata - no sight records received.

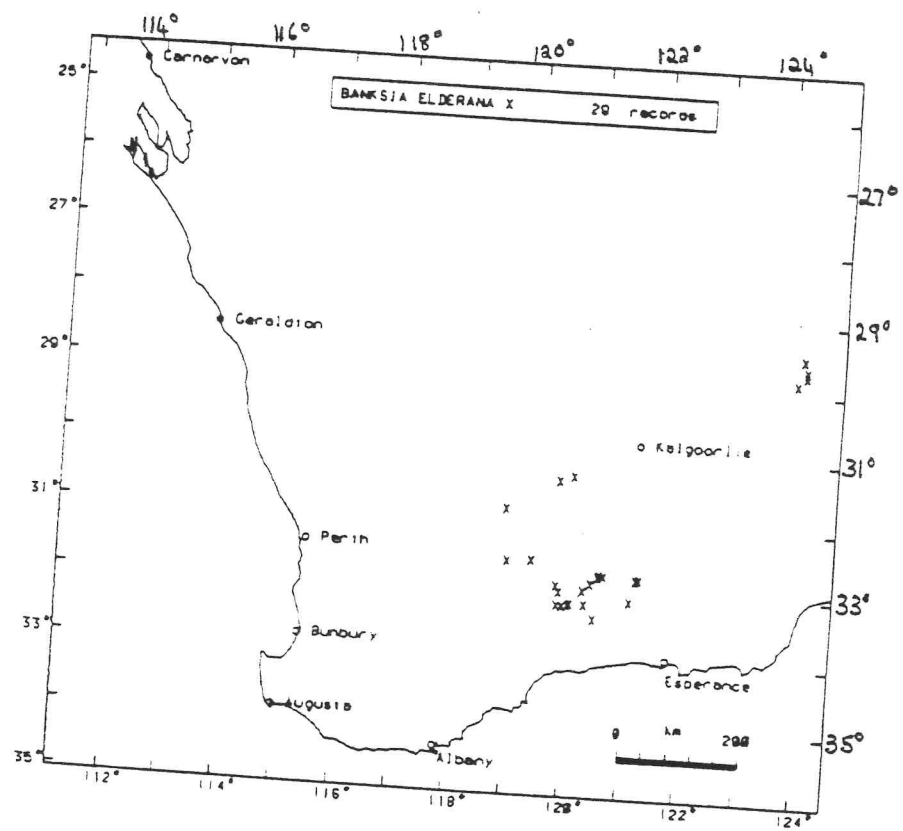
B. dentata - no sight records received.



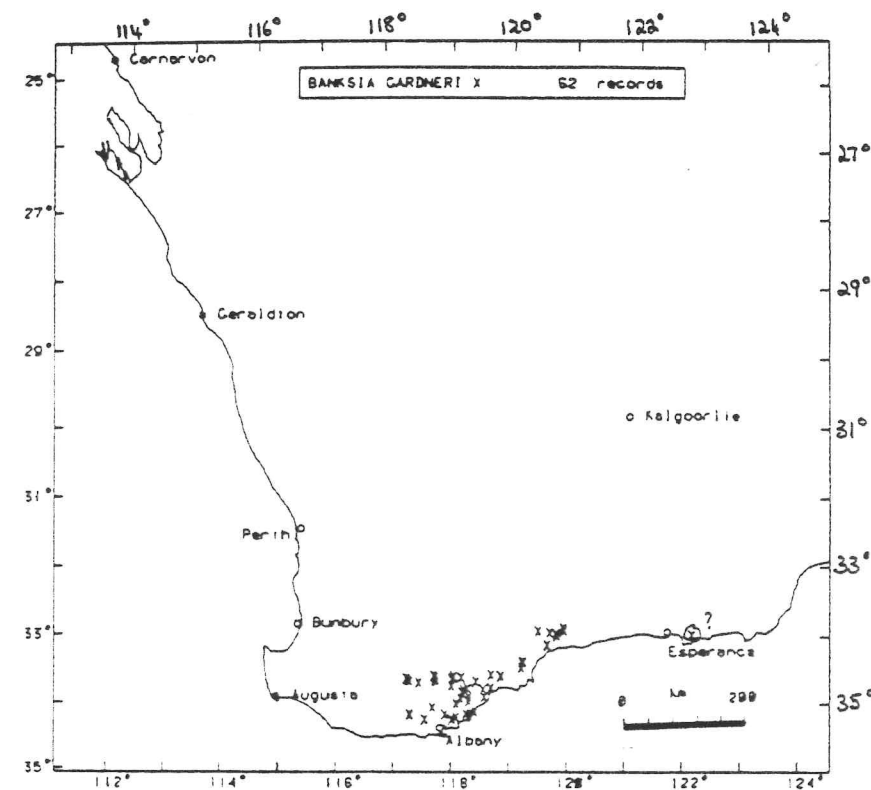
B. dryandroides - 9 records extending from Two Peoples Bay (D. Davidson) eastwards almost to Bremer Bay (J. Boyle). This is a banksia that can easily be overlooked so keep a sharp lookout, especially in the South Stirling area where Herbarium records suggest a few localities.



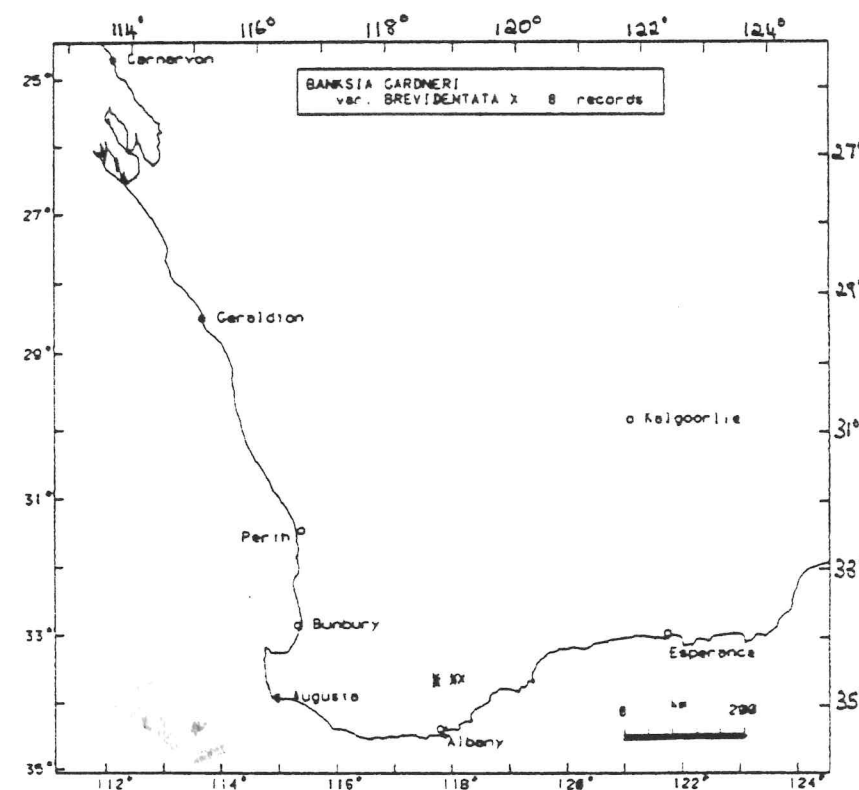
B. elegans - only 4 sight records from Walkaway (G. Barrett) southwards to Lake Indoon (G. Barrett). B. elegans is being considered for inclusion on the list of Rare and Endangered Plants, W.A. More records are needed to assess its true status.



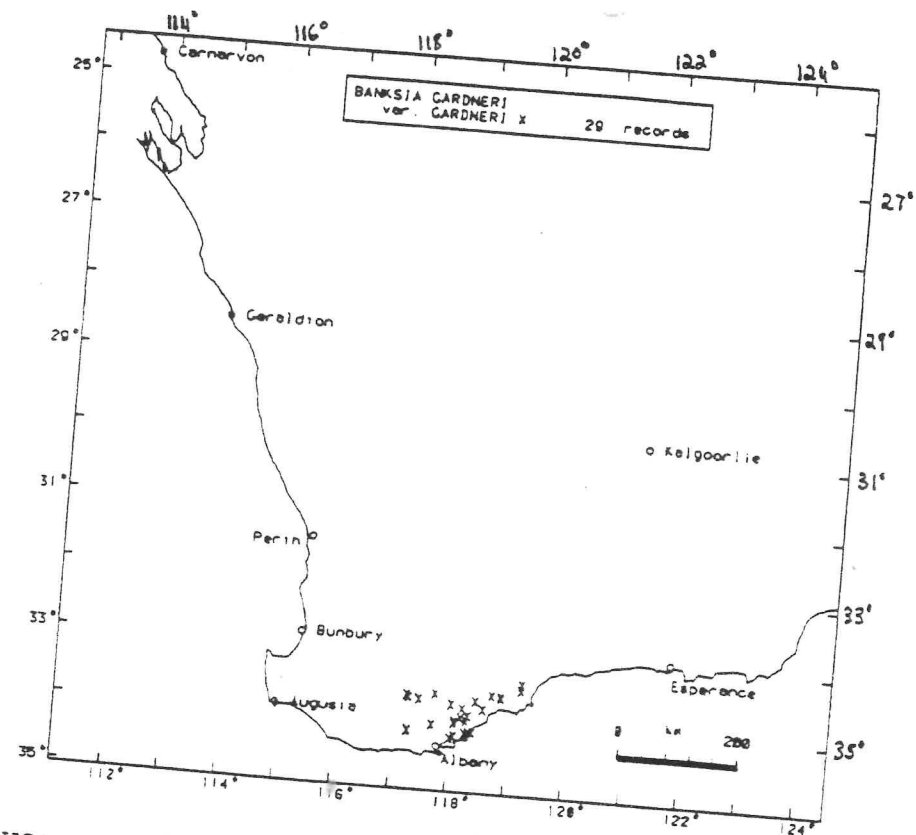
B. elderana - the main population extends between Mt Hampton (D. James), S.E. of Lake King (K. Bradby), Peak Charles (P. & C. Wardle, E. Smidt) and Boorabin (I. Kealley). There is an outlying population in the S.W. Great Victoria Desert (A. Moore). Are there any B. elderana between these two groups?



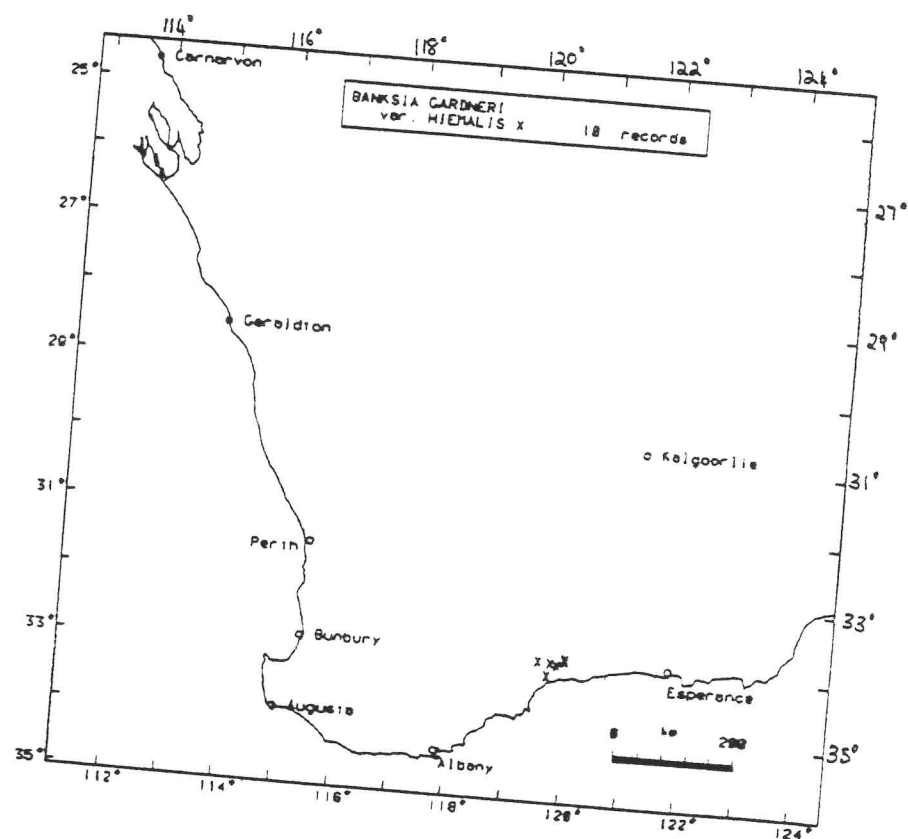
B. gardneri - a good number of records extending from Denmark (I. Kealley) and Cranbrook (R. Hall) eastwards to No Tree Hill, near Ravensthorpe (K. Bradby). The single isolated record from east of Esperance has yet to be confirmed. If correct, this will be a very large range extension.



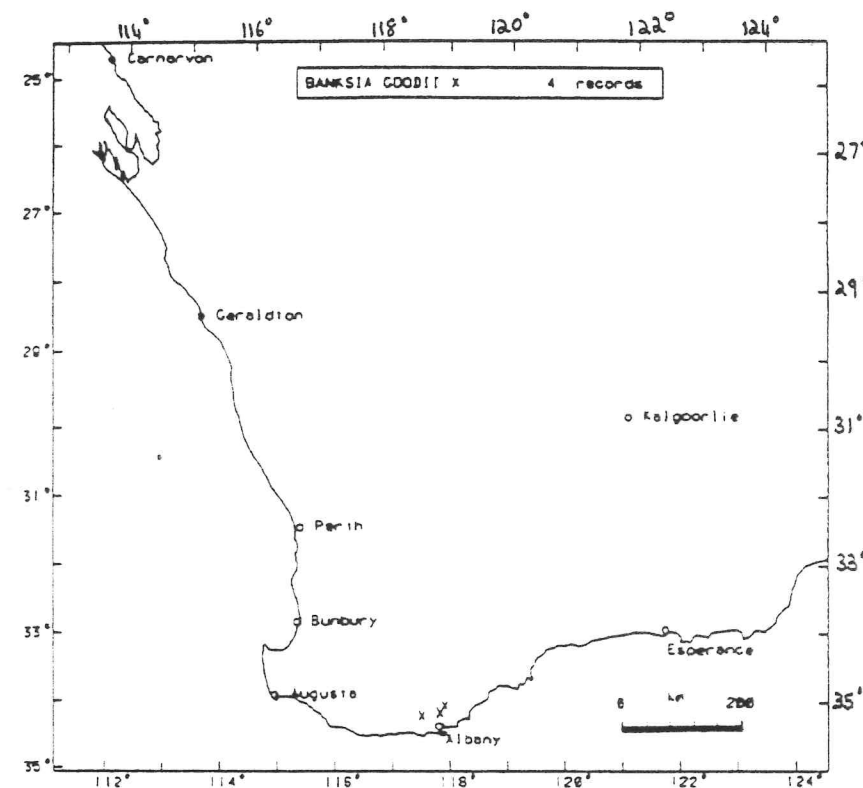
B. gardneri var. brevidentata - 8 sight records all from within the Stirling Range from Red Gum Pass in the west to Bluff Knoll in the east.



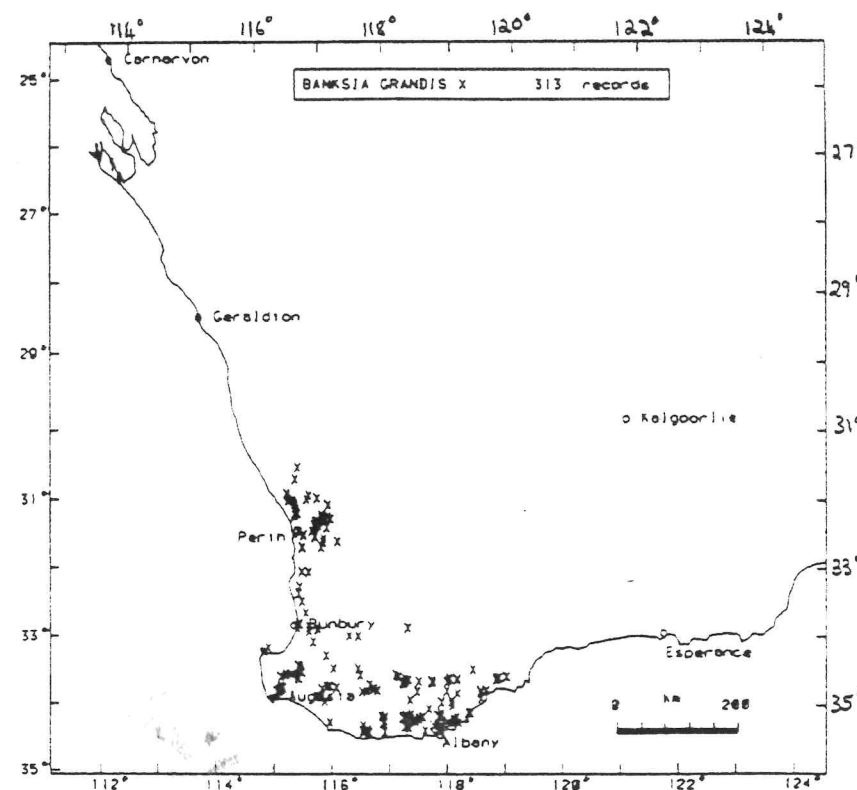
B. gardneri var. gardneri - extends from Mt Lindsay near Denmark (I. Kealley) and Cranbrook (R. Hall) eastwards to the edge of the Fitzgerald River National Park (D. Sieber). A record from the Stirling Range has yet to be confirmed.



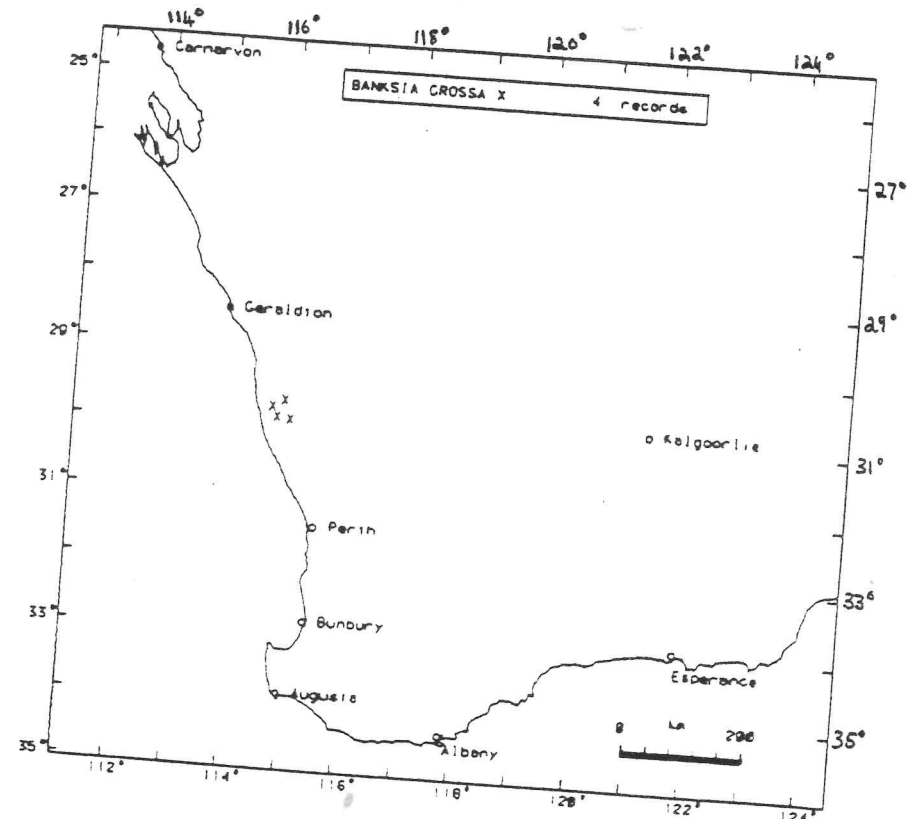
B. gardneri var. hiemalis - sight records are confined to an area either within or near to the Fitzgerald River National Park. Herbarium records indicate another population close to Harrismith - volunteers please investigate.



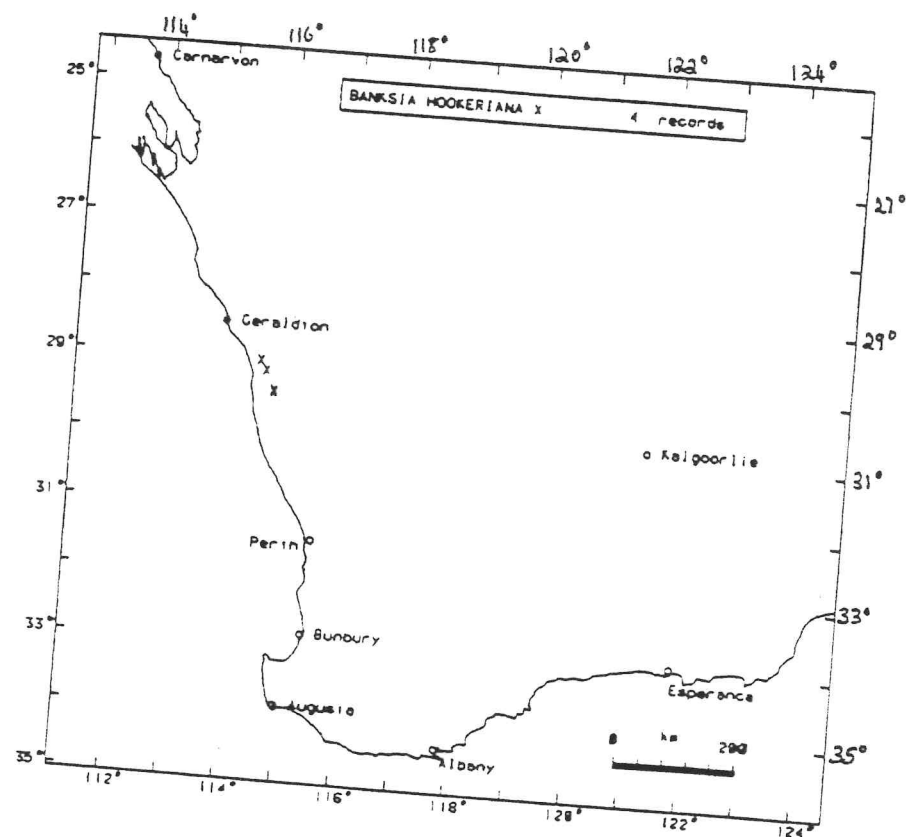
B. goodii - only 4 sight records of this rare prostrate banksia (A. Taylor, R. Mumford, G. Graham, T. Tapper) 3 of which are of road verge populations.



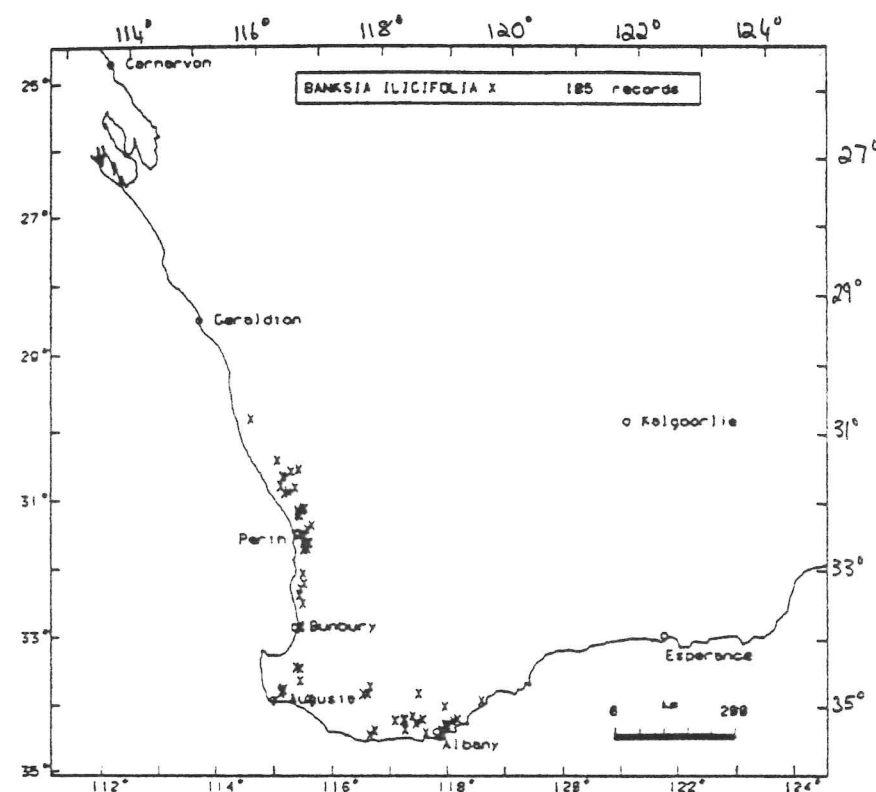
B. grandis - a good number of sight records extending from 17 km S.W. of Mogumber (A. Notley) to the Leeuwin-Naturaliste area and eastwards to Bremer Bay Road (J. Boyle). Inland, B. grandis extends to Woodanilling (M. Graham).



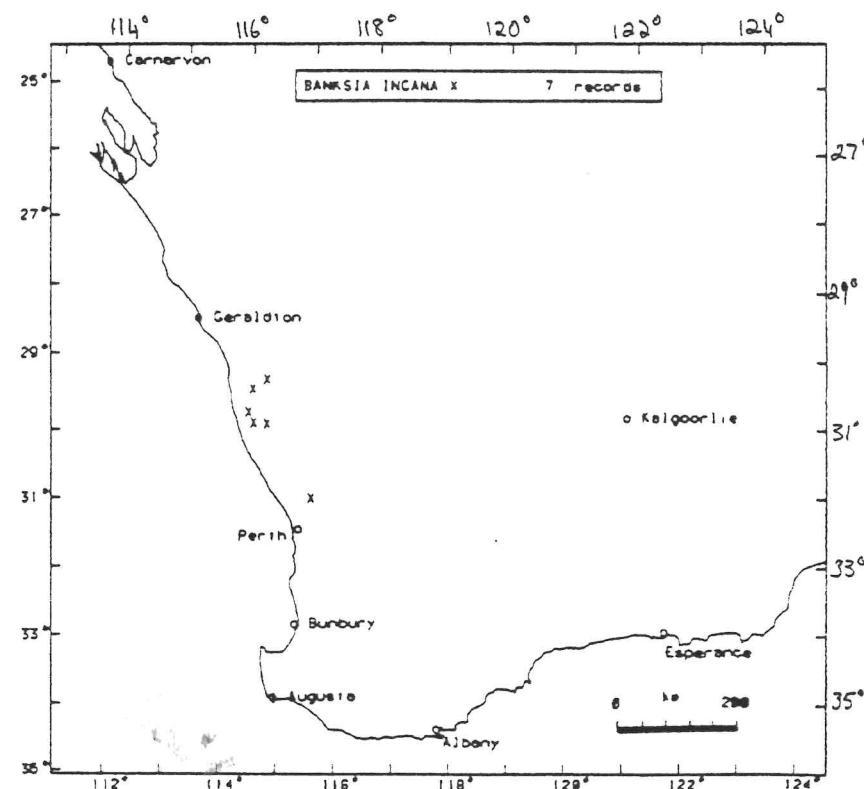
B. grossa - only 4 sight records centred on the Badgingarra-Lesueur area (J. Boyle, P. Mawson, A. Taylor). Herbarium records indicate that this species occurs further north and south - volunteers please investigate.



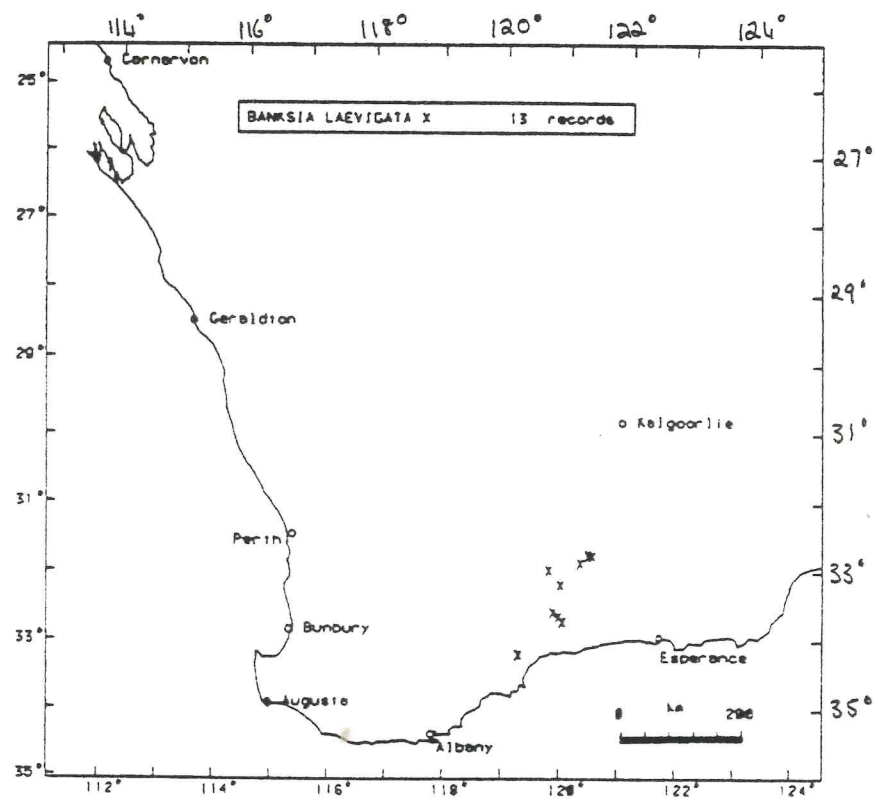
B. hookeriana - only 4 sight records extending from west of Mt Adams (G. Barrett) to 7 km south of Eneabba (G. Barrett).



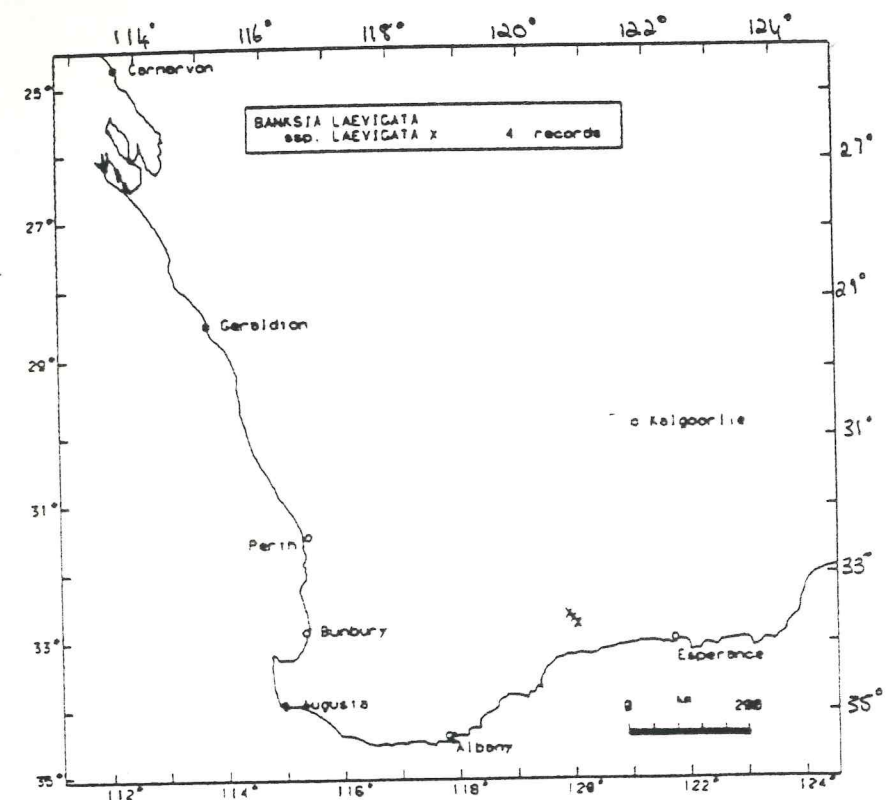
B. ilicifolia - a good number of sight records extending from the Hill river area (T. Tapper) south through Regans Ford and Moore River National Park (D. Coughran) to Augusta and eastwards to the Cordinup River (P. Leighton). This last record extends the previously known range of B. ilicifolia by some 65 km eastwards. Inland it extends to Unicup Lake (M. Graham).



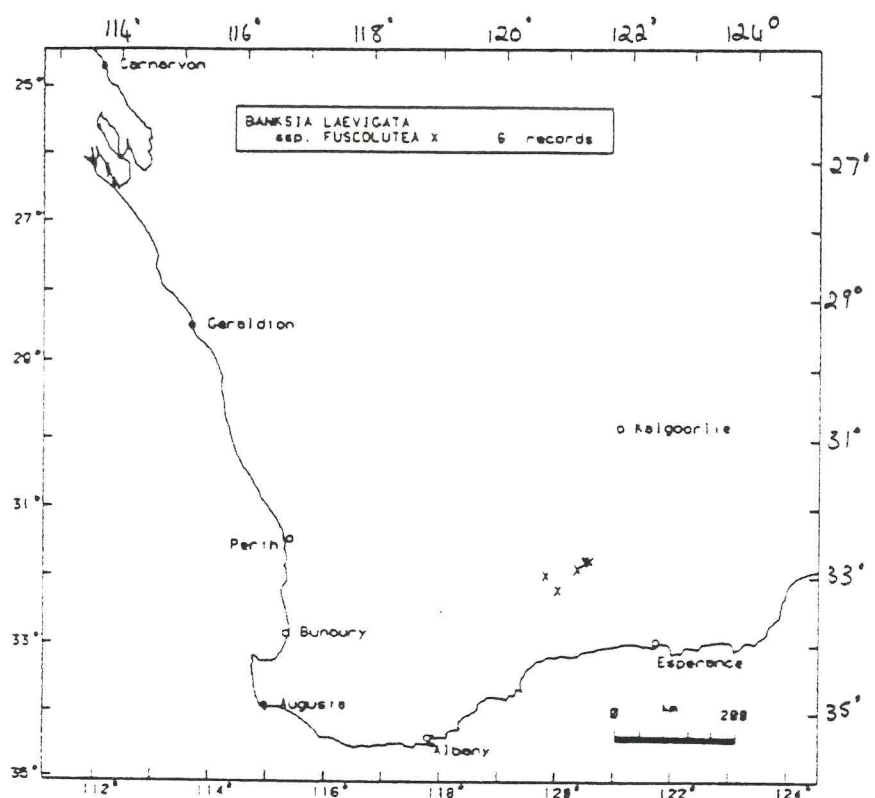
B. incana - only 7 sight records extending from Tathra National Park (G. Barrett) south to Muchea (F. & J. Phillips). Herbarium records indicate an outlying population in the Orange Grove area east of Perth - volunteers please investigate.



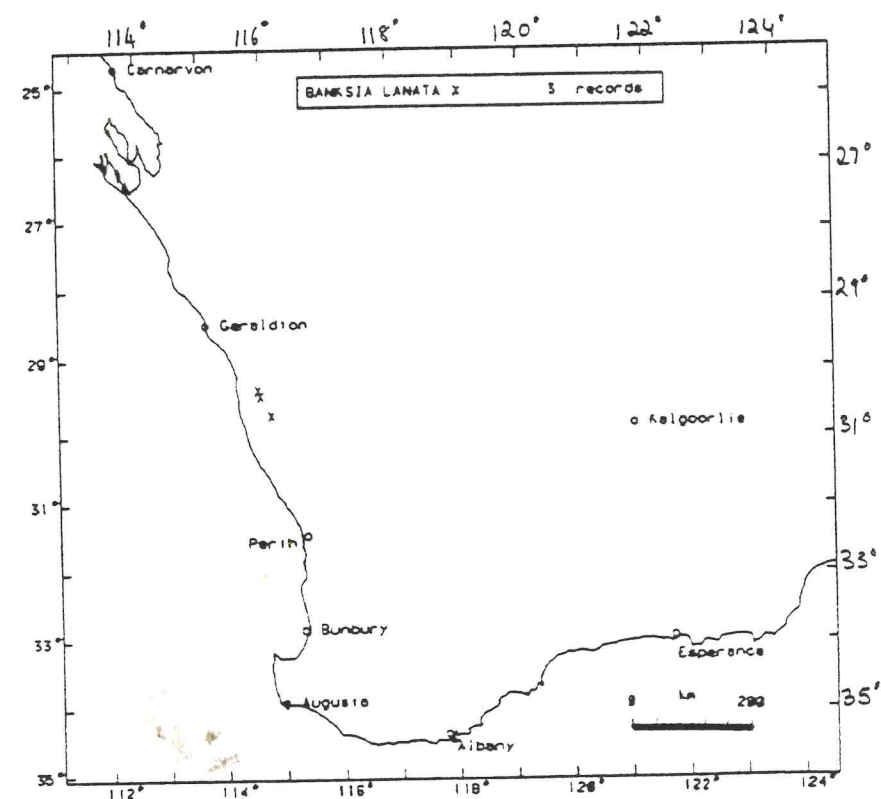
B. laevigata - most of the records are from Ravensthorpe northwards to Frank Hann National Park. Only one record has been sent in from the Fitzgerald River National Park - from near the Twertup Field Studies Centre (P. Leighton, H. Taylor).



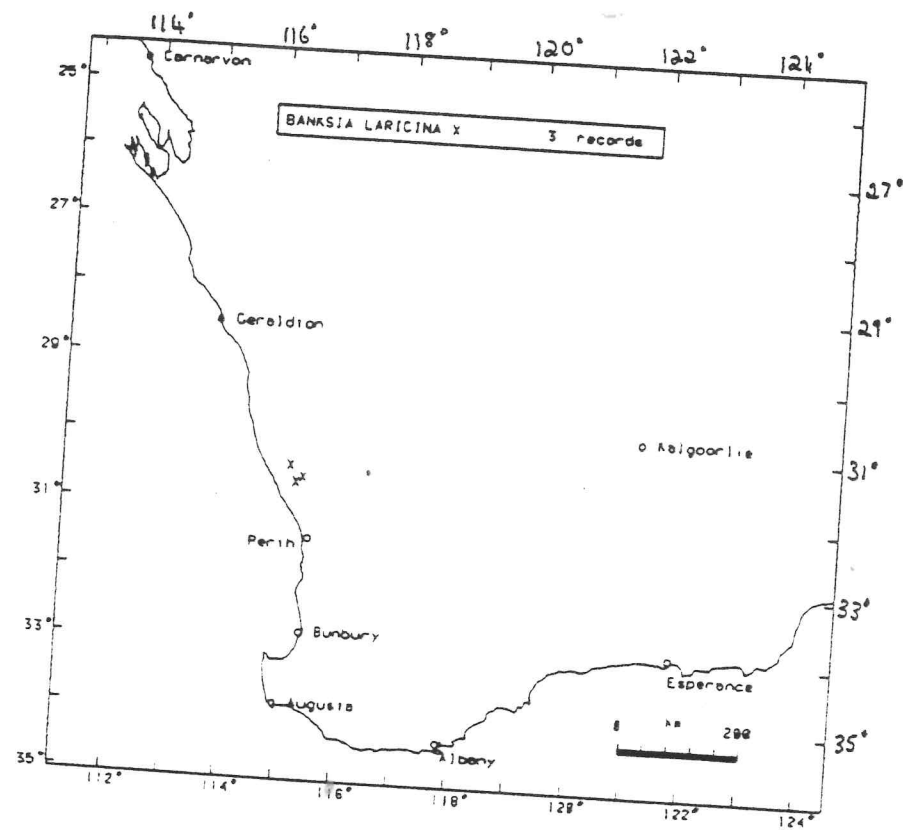
B. laevigata spp. laevigata - only 4 records all from the Ravensthorpe area.



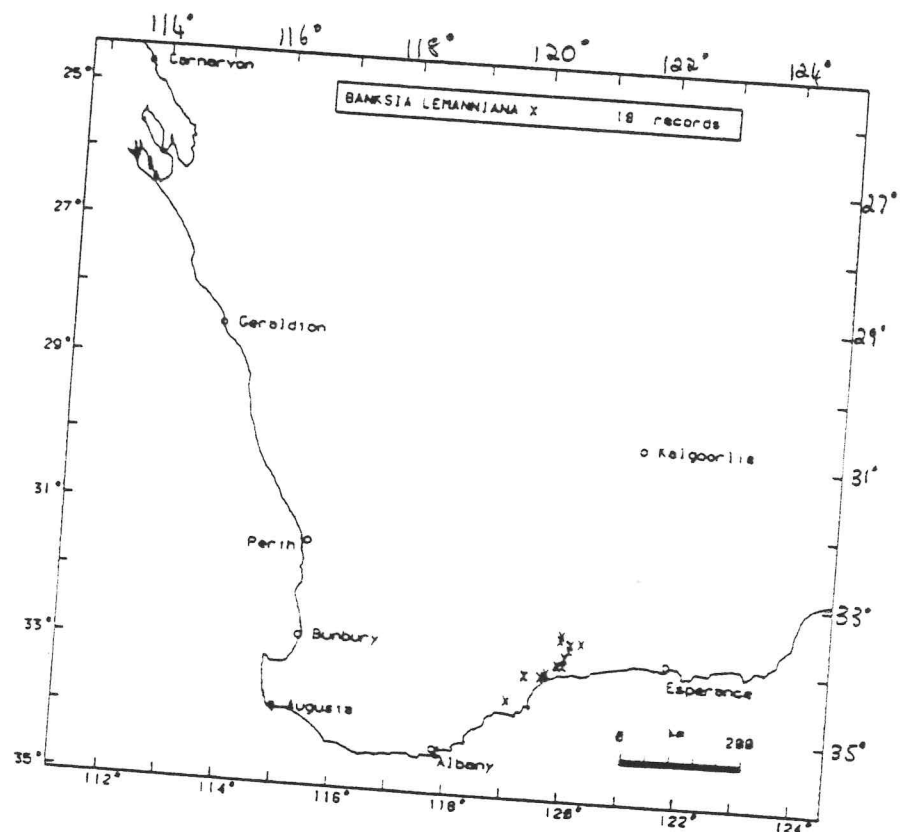
B. laevigata ssp. fusciculata - 6 records extending from Hatters Hill and Lilian Stoke Rock west of Frank Hann National Park (K. Bradby) eastwards through the Park towards Kumarl. Herbarium records indicate that this species occurs as far west as Hyden - volunteers please investigate.



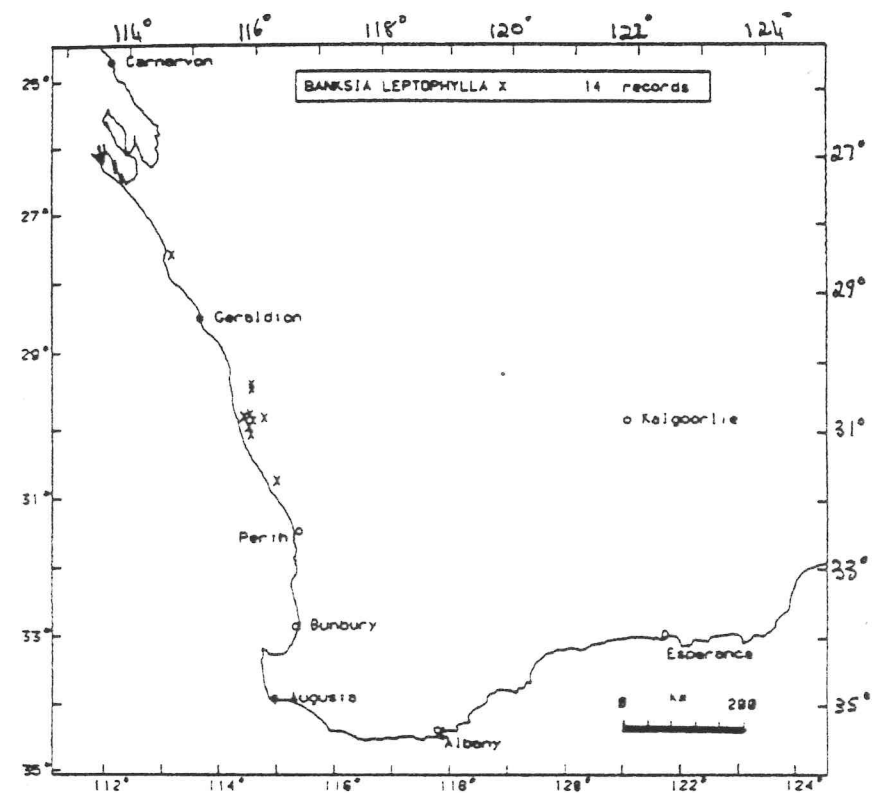
B. lanata - only 3 sight records from near Eneabba (J. Chilvers) southwards to Coomallo Creek (A. Taylor).



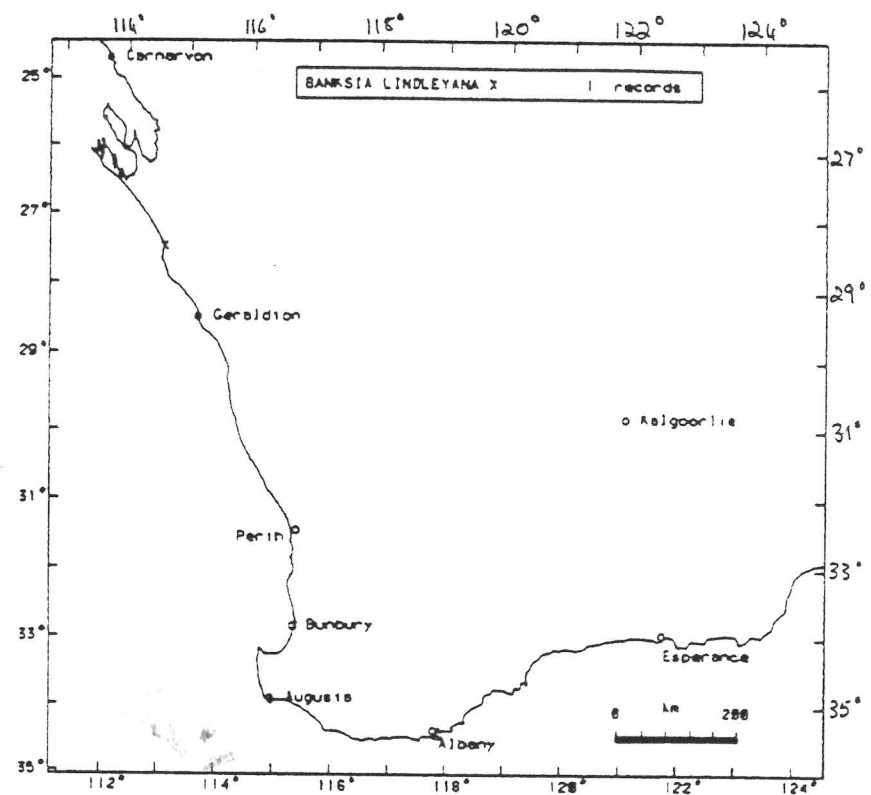
B. laricina - only 3 sight records (D. Coughran, J. Beard) and all from Moore River area.



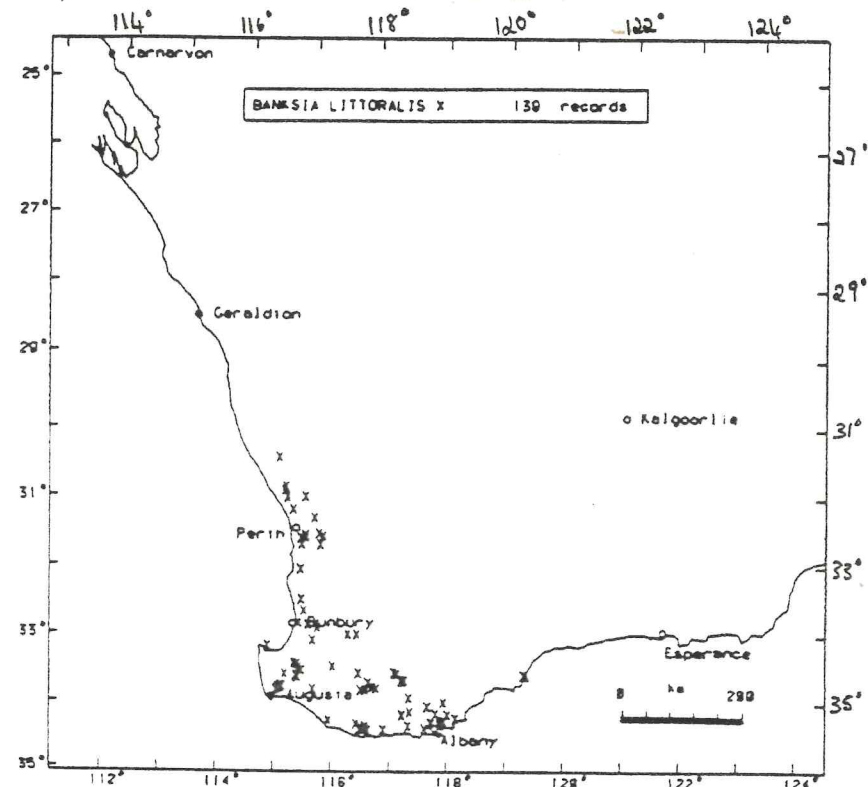
B. lemanniana - extends from west of Bremer Bay to near the Rabbit Proof Fence (A. Napier) and inland to the Ravensthorpe Range (P. Mawson).



B. leptophylla - two apparently disjunct populations, one in Kalbarri National Park (D. & B. Bellairs), the other extending from Eneabba (J. Chilvers) southwards almost to Guilderton (T. Tapper). There are considerable gaps in this distribution - volunteers please investigate.

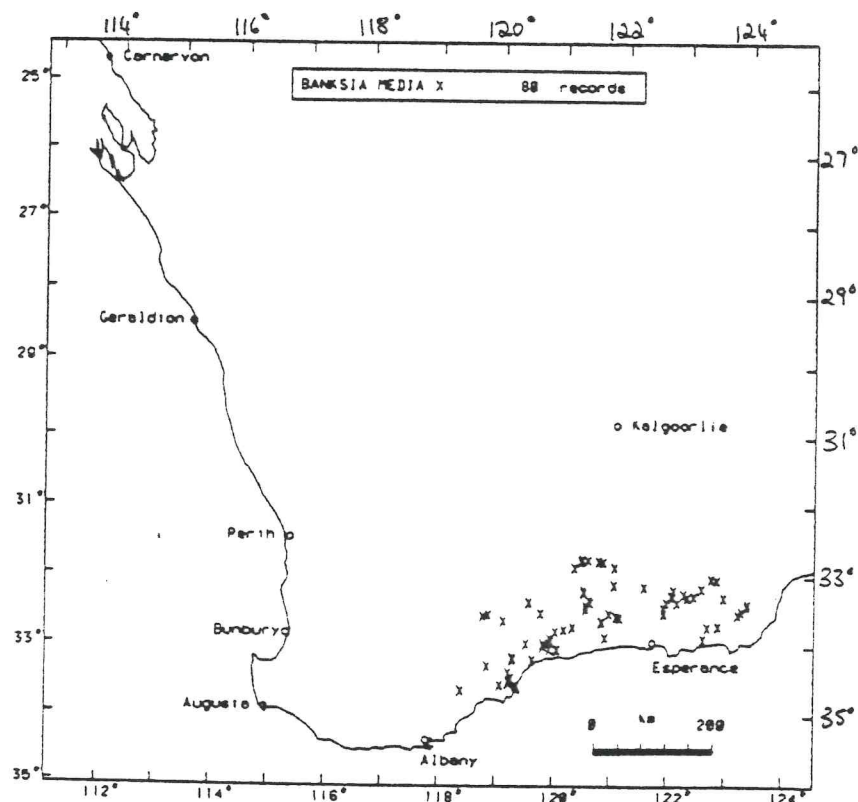


B. lindleyana - only one record from Kalbarri National Park (D. & B. Bellairs). Herbarium records indicate a scattered distribution between Northampton and Shark Bay - volunteers please investigate.

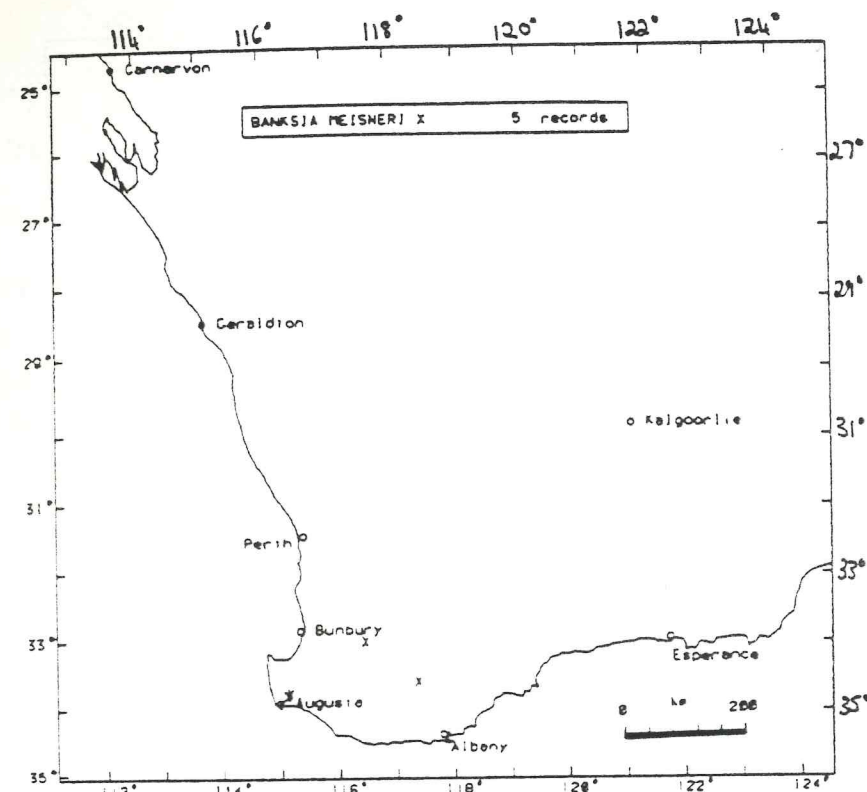


B. littoralis - a good number of sight records extending from Regans Ford (G. Pearson) southwards to Dunsborough (T. Stoneman) and Augusta (J. Allen) and eastwards to Bremer Bay (D. Sieber). This last record extends the previously known distribution of B. littoralis by some 140 km eastwards. Inland, B. littoralis extends to the Blackwood River near Moodiarup (M. Graham) and to Frankland (R. Hall).

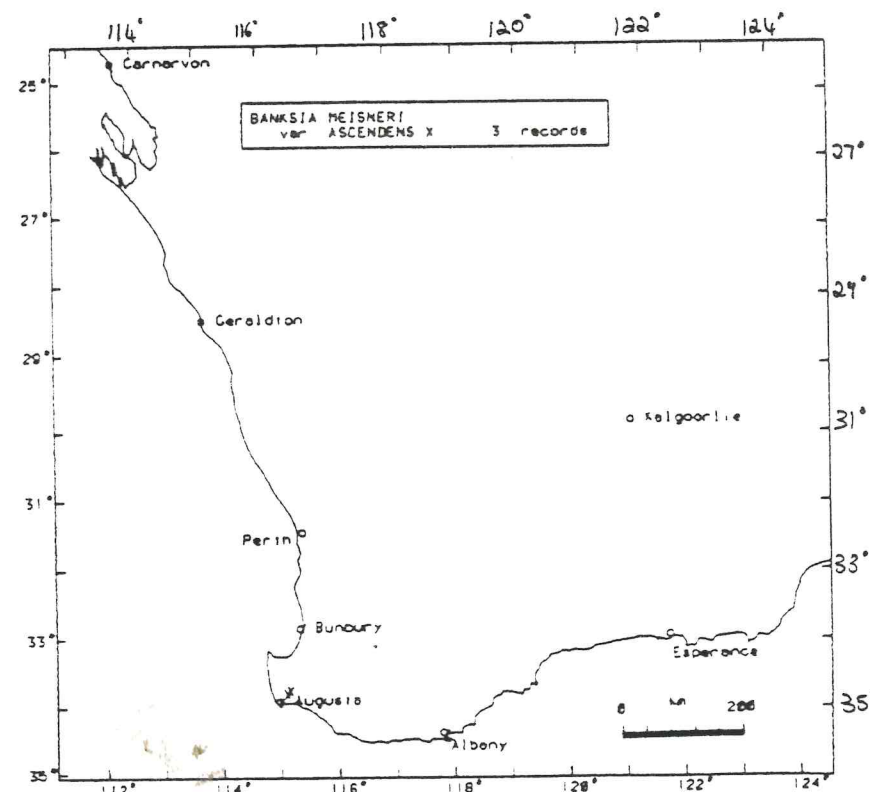
B. lullfitzii - no sight records received.



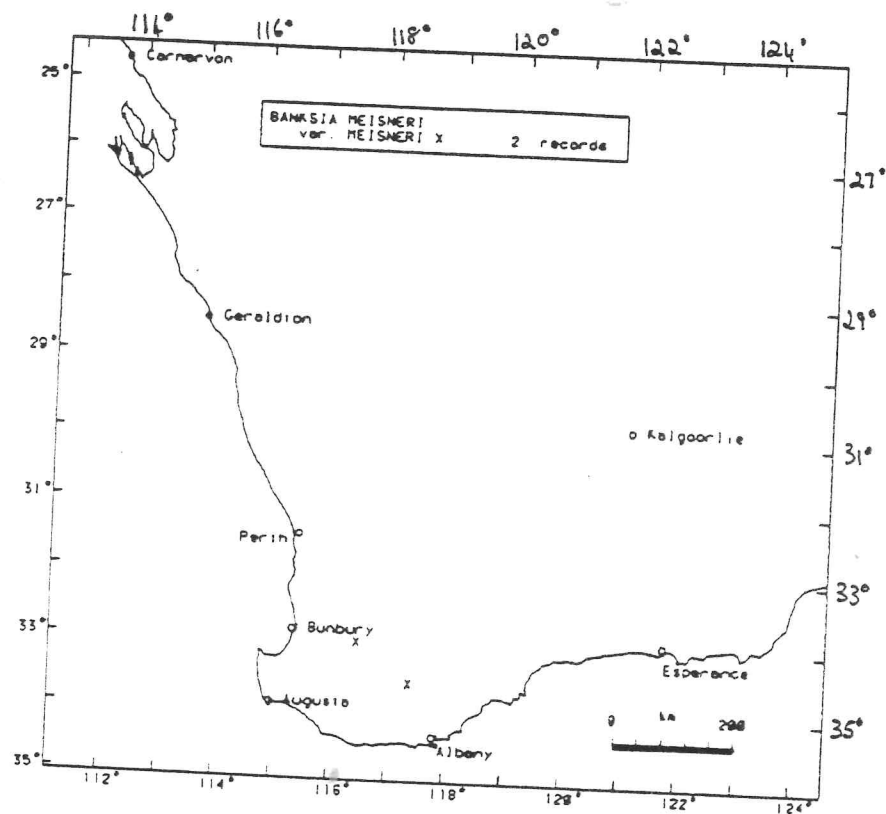
B. media - a good number of sight records extending from south east of the Stirling Range (P. Sanderson) to Mt Ragged in Cape Arid National Park (P. Booth). Inland B. media extends to Holland Rocks (A. Taylor), Frank Hann National Park (C. Felton, E. Smidt), and Mt Ridley (P. Mawson). There is only one sight record of B. media along the coastal strip between Hopetoun and Esperance - volunteers please investigate.



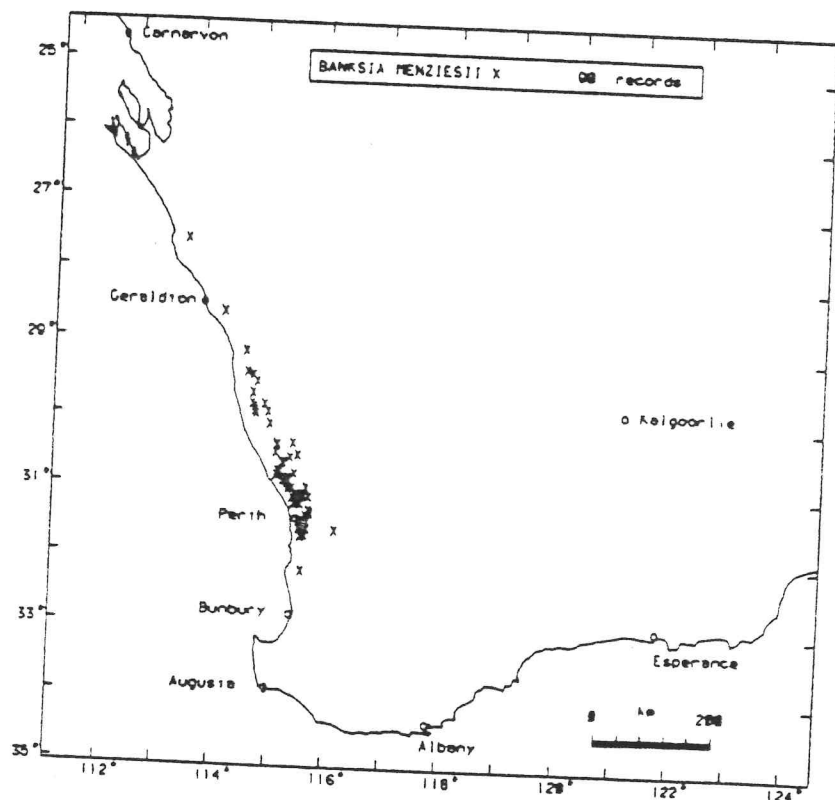
B. meisneri - only 5 sight records, all identified at the varietal level.



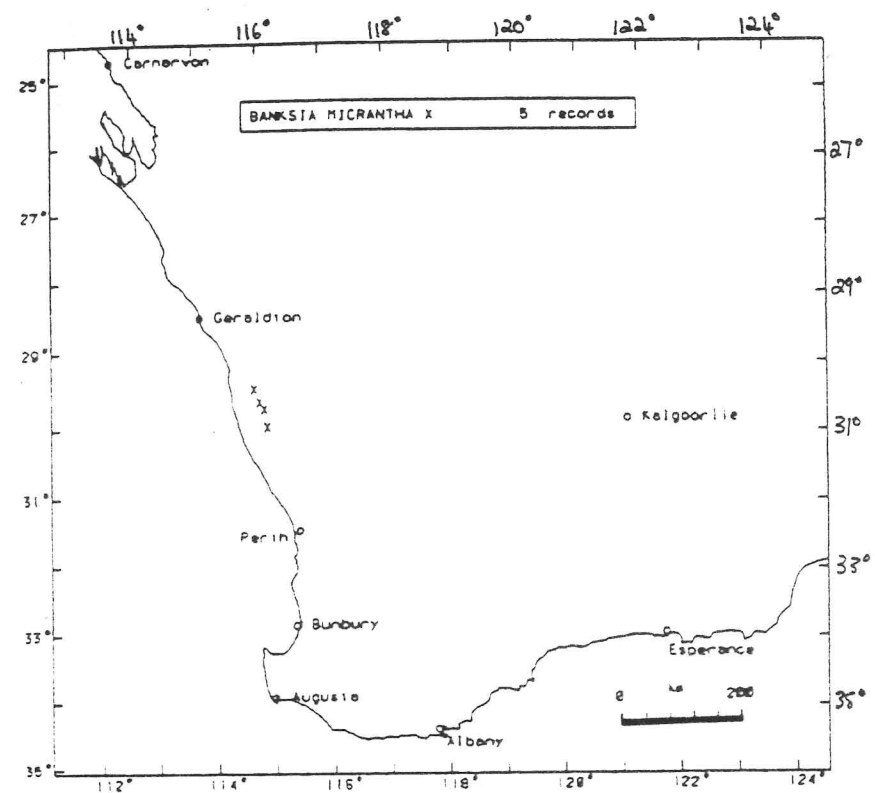
B. meisneri var. ascendens - only 3 records of this rare banksia and all from the Scott River National Park (J. Allen). Another population is thought to exist near Busselton - volunteers please investigate.



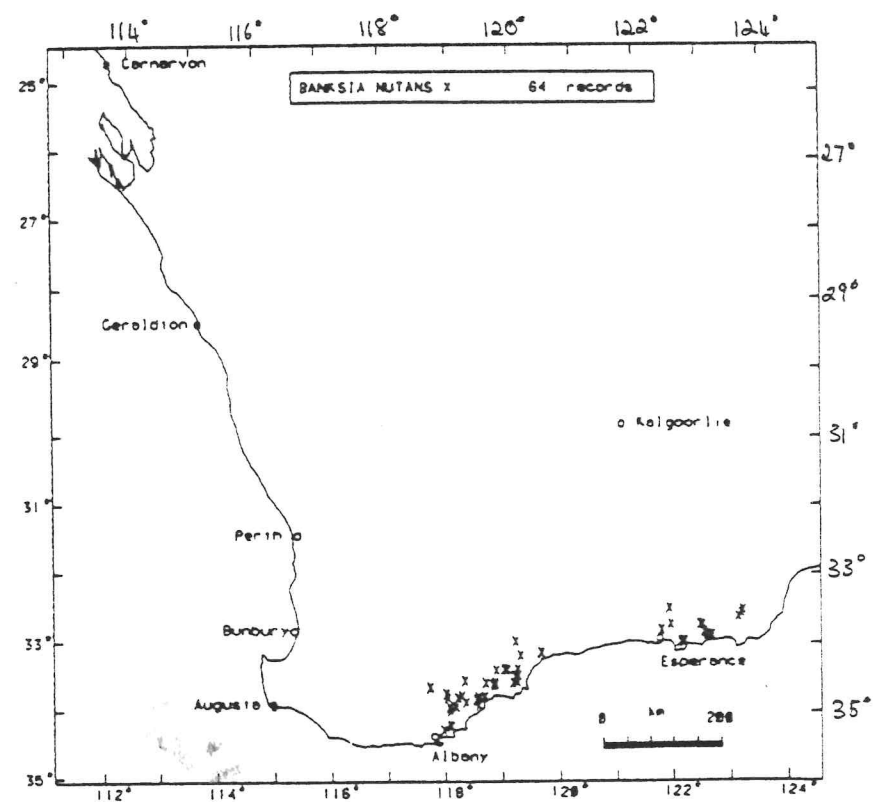
B. meisneri var. meisneri - one record from near the Blackwood River (M. Graham) and one west of Cranbrook (R. Hall). Herbarium records suggest that this variety is fairly widespread between Collie, Pingrup and Tenterden - volunteers please investigate.



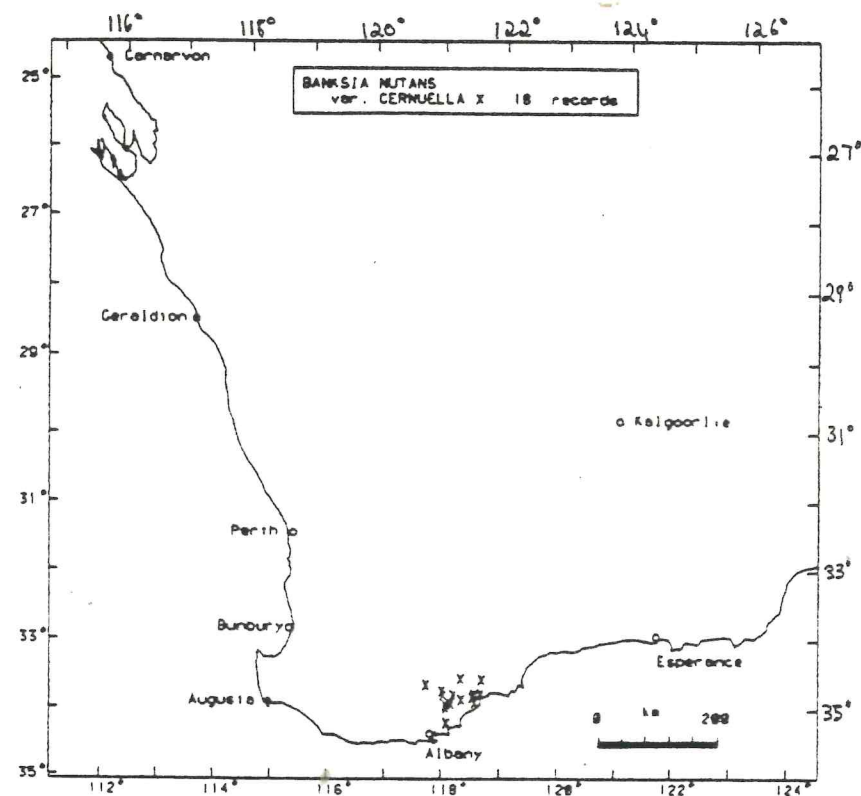
B. menziesii - a good number of records extending from Kalbarri (D. & B. Bellairs) south almost to Waroona (R. Shoosmith). East of Perth the most inland sight record comes from 50 km along Brookton Highway (M. Lewis). However, Herbarium records indicate that the most inland location may be east of Brookton and Beverley - volunteers please investigate.



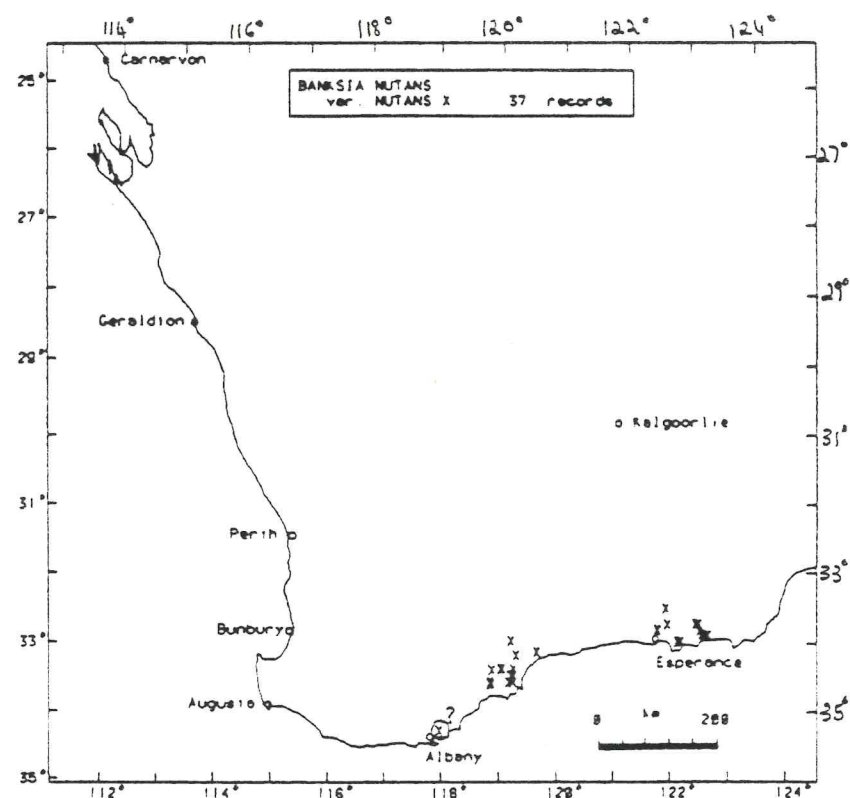
B. micrantha - only 5 sight records extending from near Eneabba (G. Barrett) southwards to Badgingarra (A. Taylor).



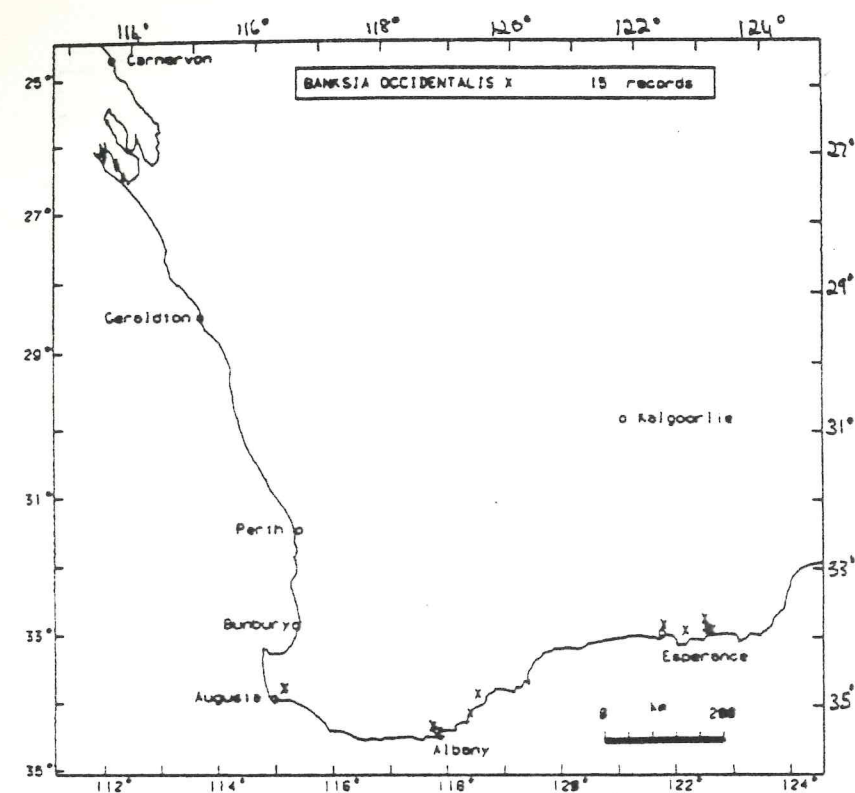
B. nutans - records extend from Albany and the Stirling Range (both J. Boyle) eastwards to Mt Ragged (P. Booth). There is a large gap in records between the Fitzgerald River National Park and Esperance - volunteers please investigate.



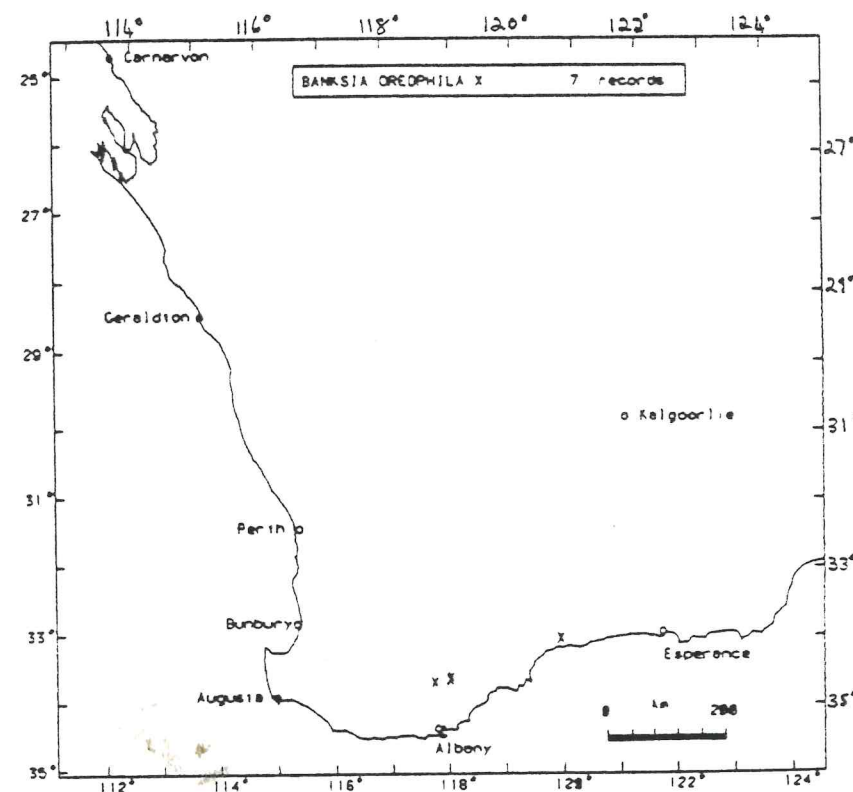
B. nutans var. cernuella - records extend from the Stirling Range and near Albany (both J. Boyle) eastwards to Boxwood Hill (R. & B. McGuinness). Herbarium records suggest an outlying population west of Woodanilling - volunteers please investigate.



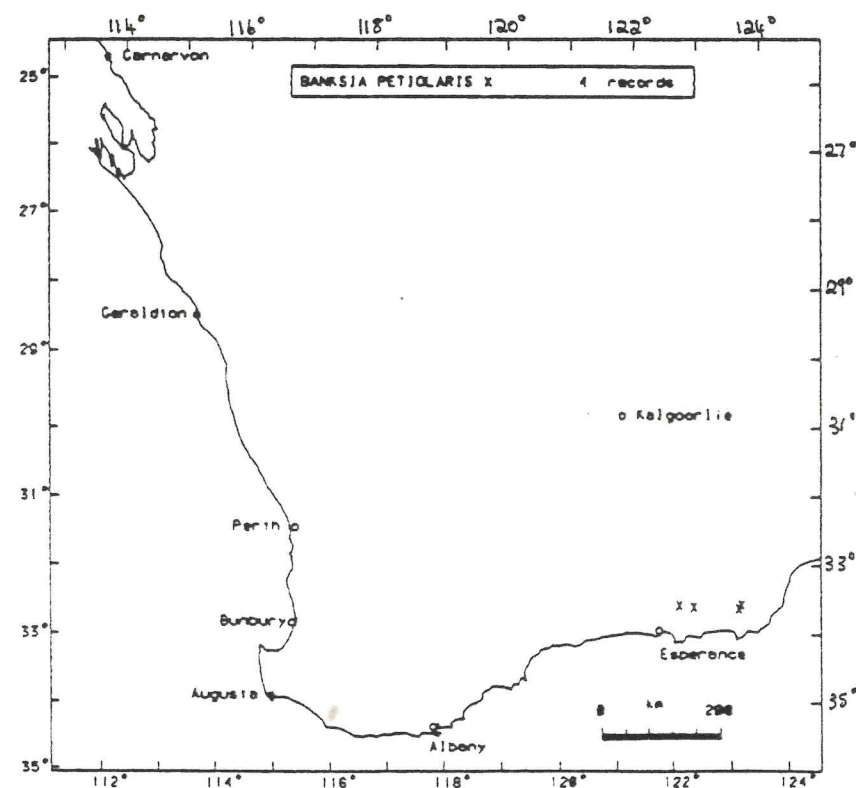
B. nutans var. nutans - confirmed records extend from Boxwood Hill (R. & B. McGuinness) eastwards to Duke of Orleans Bay (C. Creighton). The furthest inland records are from west of Fitzgerald (R. & B. McGuinness) and east of Scaddan (C. Creighton). Just east of Albany the sight record is from Mt Martin. A B. nutans specimen from this area was illustrated in Newsletters No. 1 and 2. It has not yet been confirmed to which variety this specimen belongs.



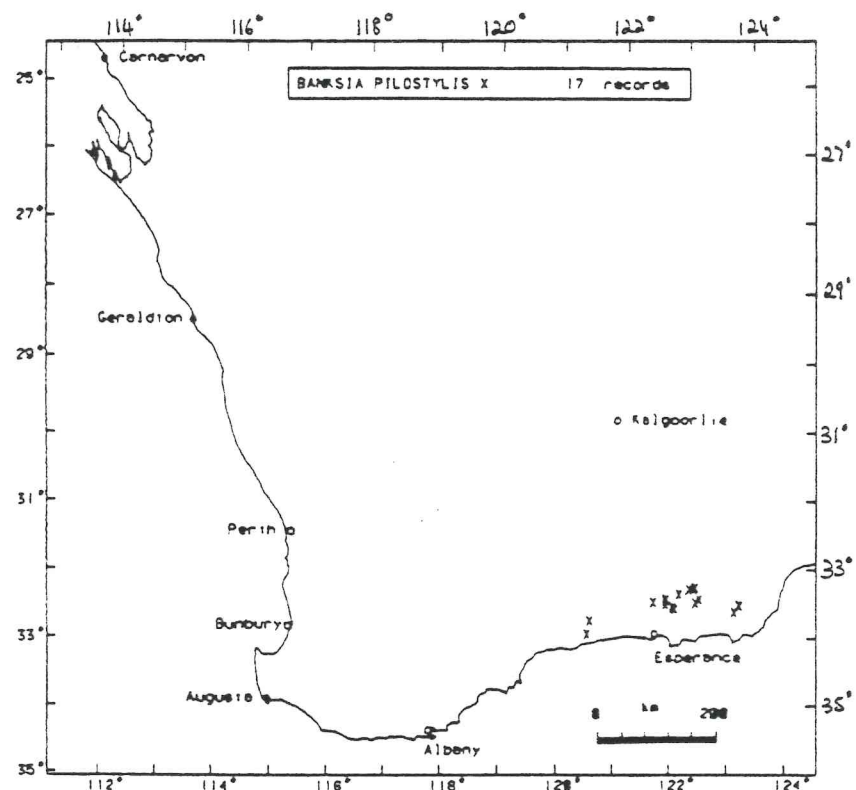
B. occidentalis - an interrupted distribution extending from Augusta (J. Allen) through Albany and Wilyun Creek (P. Leighton) to Esperance and Duke of Orleans Bay (C. Creighton). Herbarium records indicate localities between Esperance and Hopetoun and also west of Albany - volunteers please investigate.



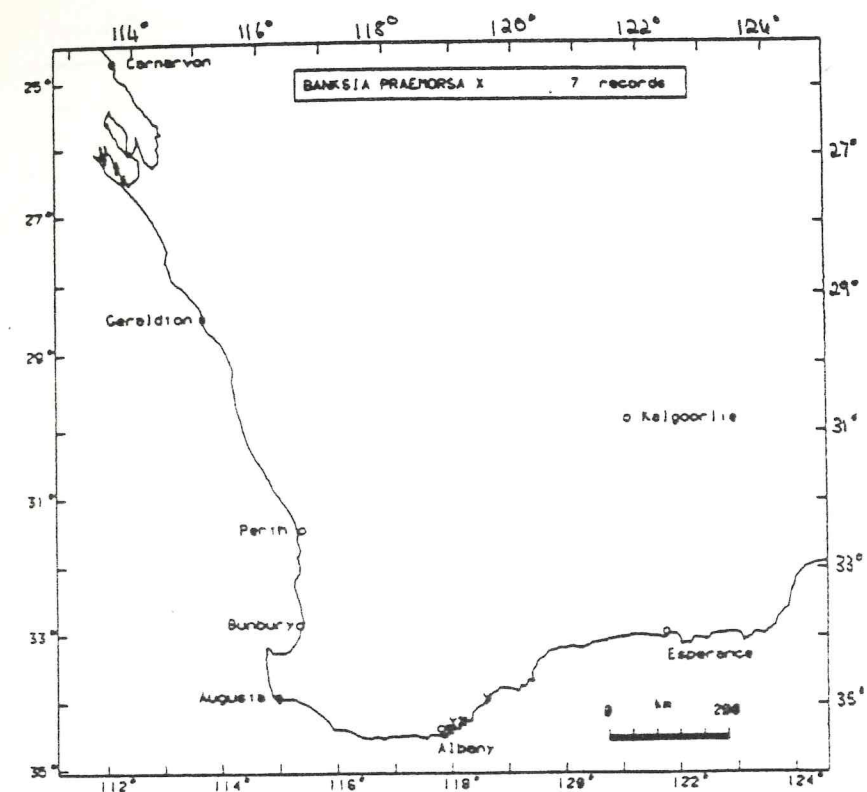
B. oreophila - only 7 records restricted to the Stirling Range (5) and East Mount Barren (2). Herbarium records indicate that B. oreophila occurs on other mountains within the Fitzgerald River National Park - volunteers please investigate.



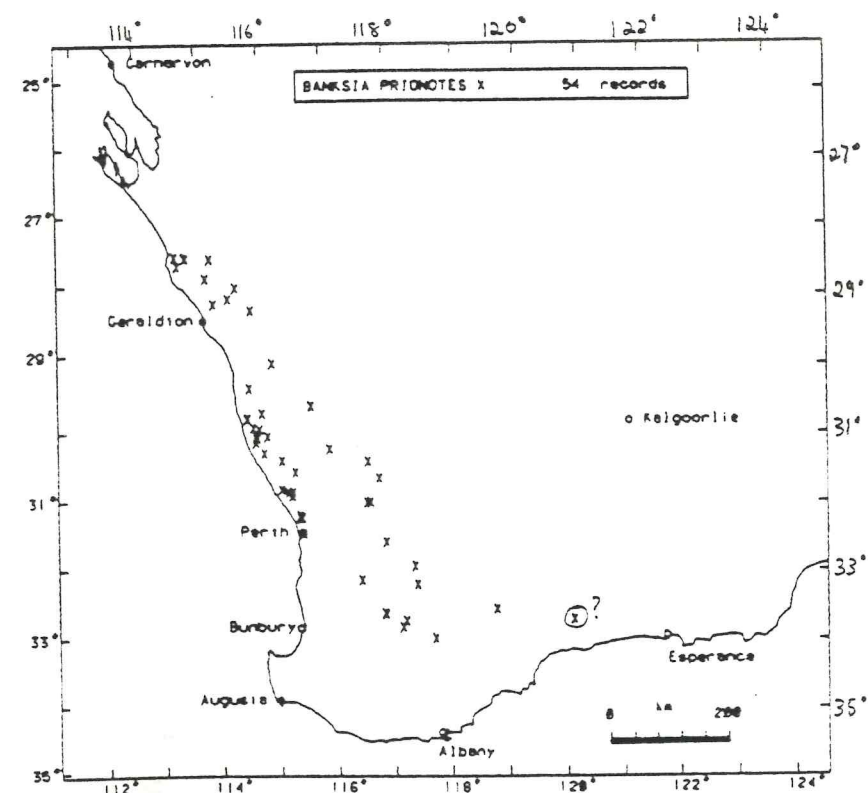
B. petiolaris - only 4 sight records from east of Scaddan (C. Creighton) eastwards to Mt Baring (P. Booth). A poor number of records for one of the most easily recognised of the prostrate banksias. Look for its shortly toothed grey/green leaves with a furry white undersurface, and its pink and pale yellow flowers.



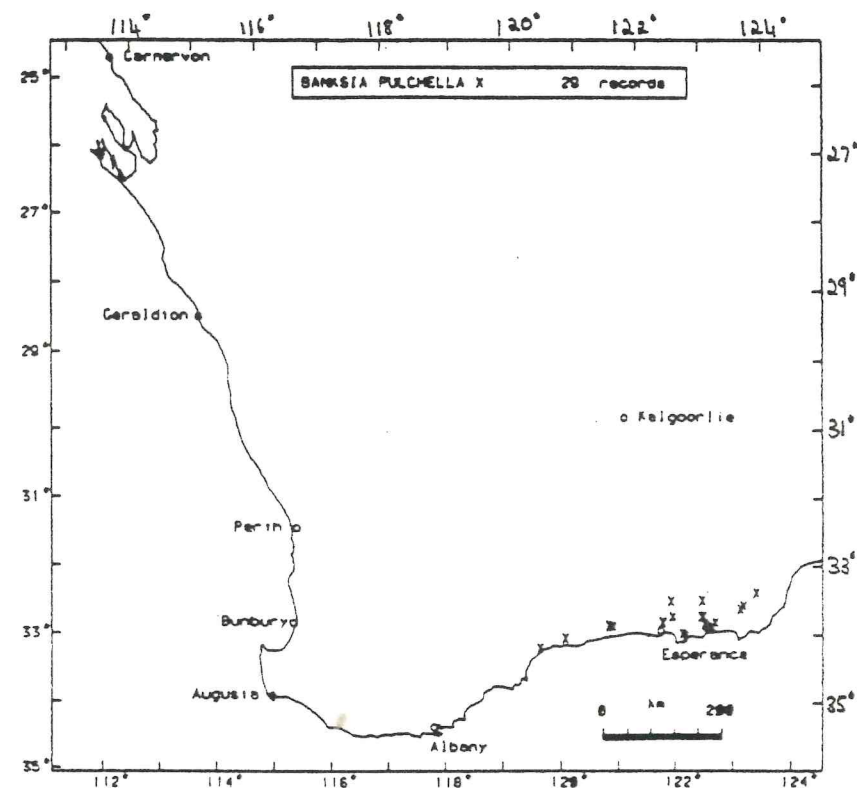
B. pilostylis - extends from Lake Shaster (G. Velterop) eastwards to Mt Baring, Cape Arid National Park (P. Booth). The furthest inland record comes from Mt Heywood (P. Booth). There are no sight records between Munglinup and Truslove - volunteers please investigate.



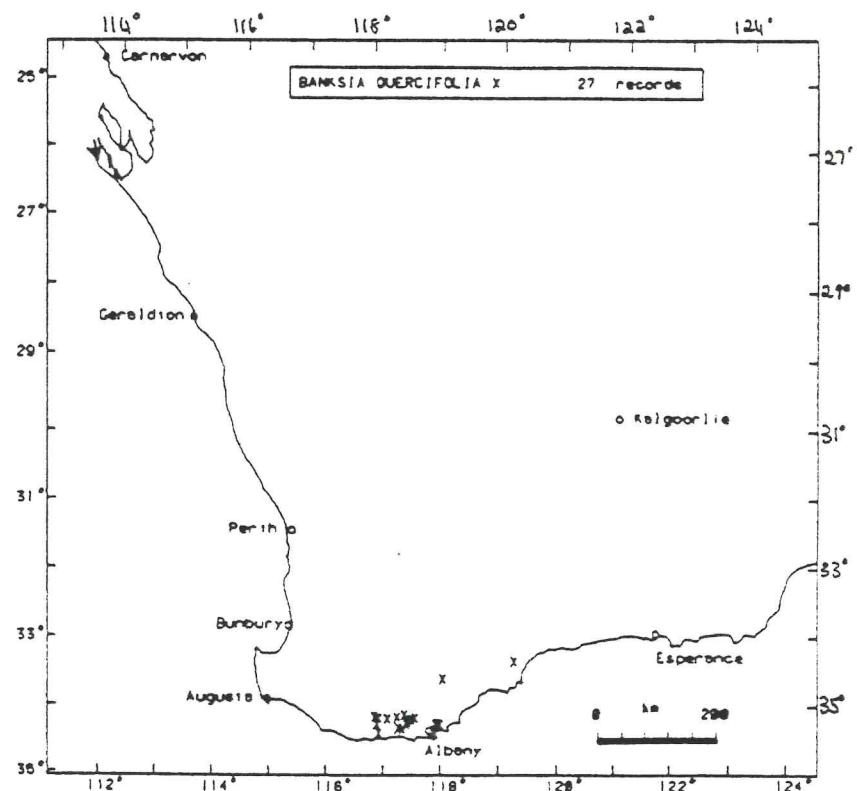
B. praemorsa - 6 of the 7 records are from Albany east to Two Peoples Bay. One record (P. Leighton) from the coast opposite Haul Off Rock extends the previously known range of this restricted species.



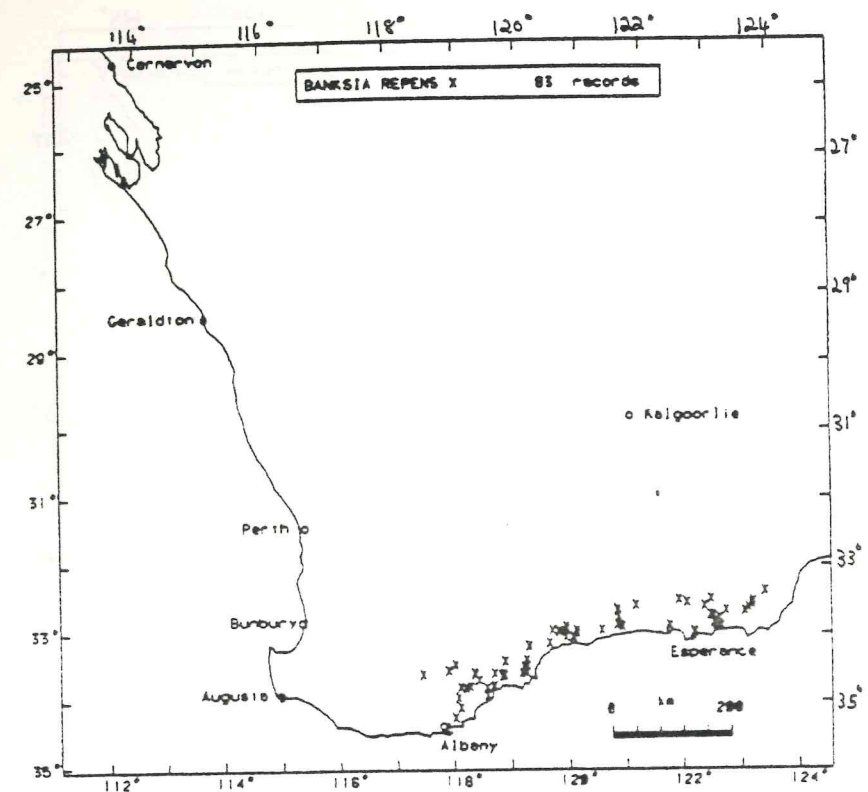
B. prionotes - extends from Kalbarri National Park (D. & B. Bellairs) southwards to Coyrecup (M. Graham). Inland, B. prionotes reaches Dowering (Mr and Mrs Smith) and Yealering (I. Kealley). A sight record from near Holland Rocks (R. Cugley) extends the previously known range of this species by some 120 km eastwards. Another sight record from near Ravensthorpe has yet to be confirmed. Herbarium records indicate a population of B. prionotes from Tamala Station, south of Shark Bay - volunteers please investigate.



B. pulchella - a near coastal distribution extending from Twin Bays, Fitzgerald River National Park (R. & B. McGuinness) eastwards to Mt Ragged, Cape Arid National Park (P. Booth). Apparent gaps occur between Hopetoun and Munglinup and between Munglinup and Esperance - volunteers please investigate.

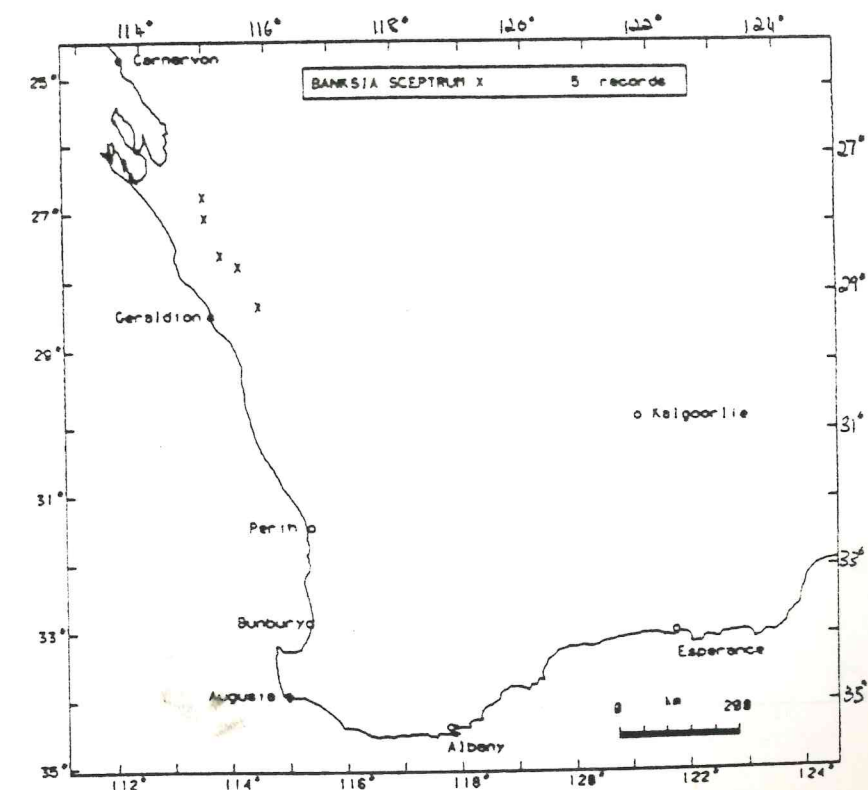


B. quercifolia - extends from Bow Bridge (L. Gueho) and Mt Frankland (H. Hoffman) eastwards to near Albany. Herbarium records indicate other populations at Windy Harbour and around Walpole - volunteers please investigate.

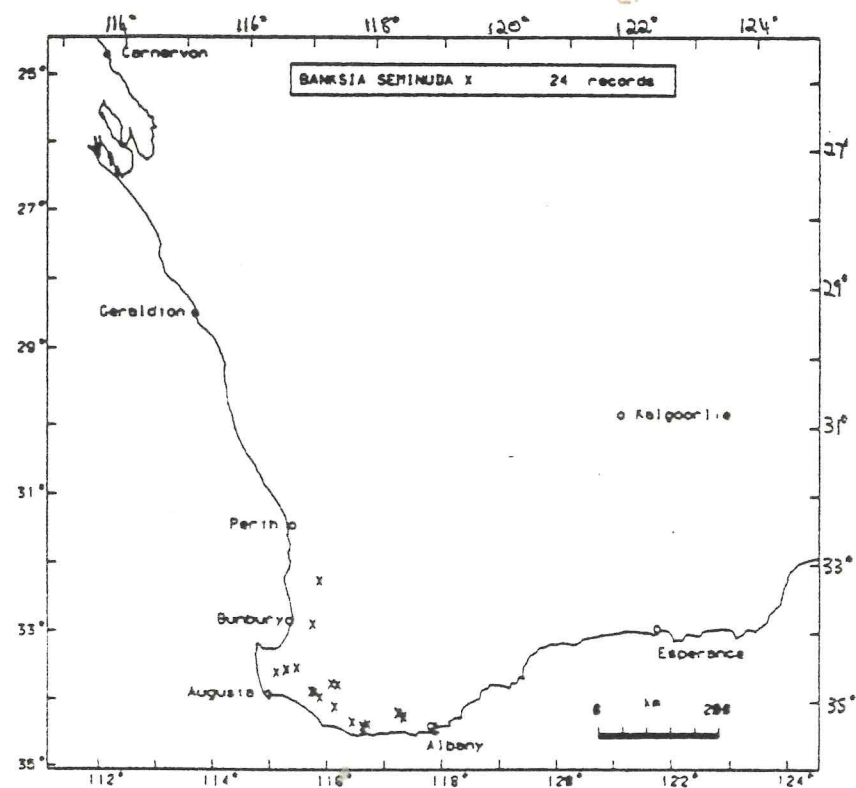


B. repens - a good number of records extending from Cranbrook (R. Hall) eastwards to Mt Ragged (P. Booth).

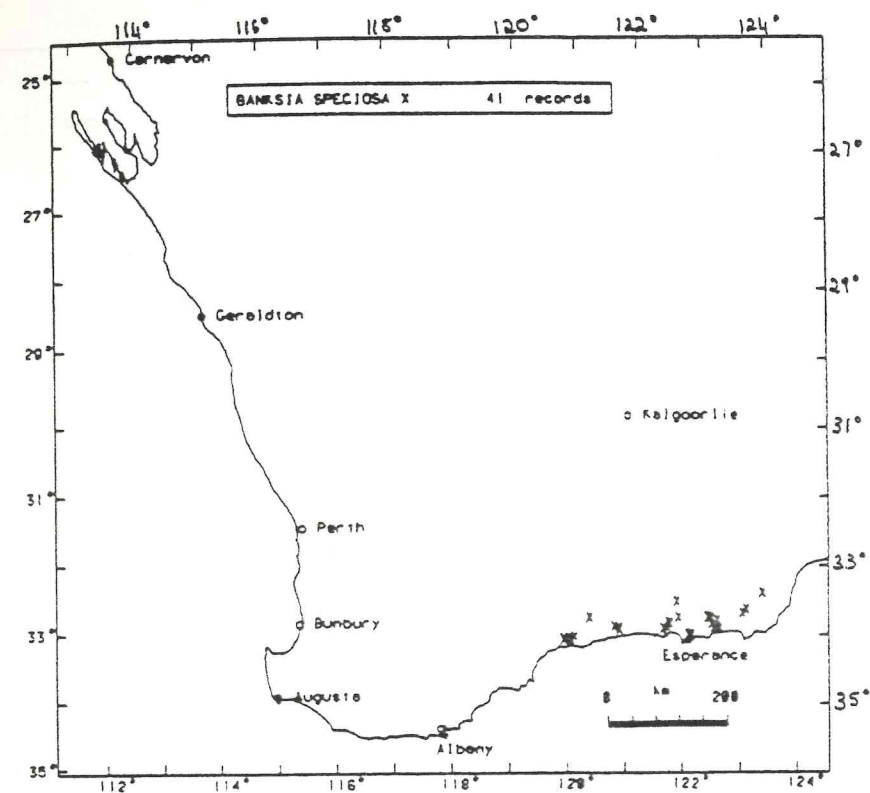
B. scabrella - no sight records received.



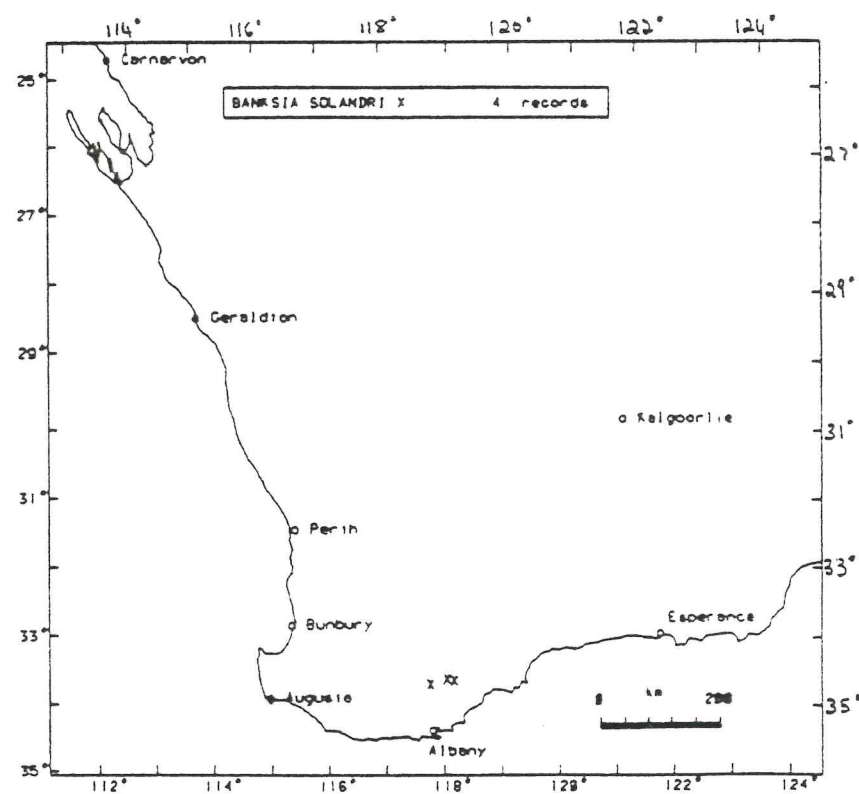
B. sceptrum - only 5 records extending from Nerren Nerren (G. Schmidt) southwards to near Tenindewa (C. Napier).



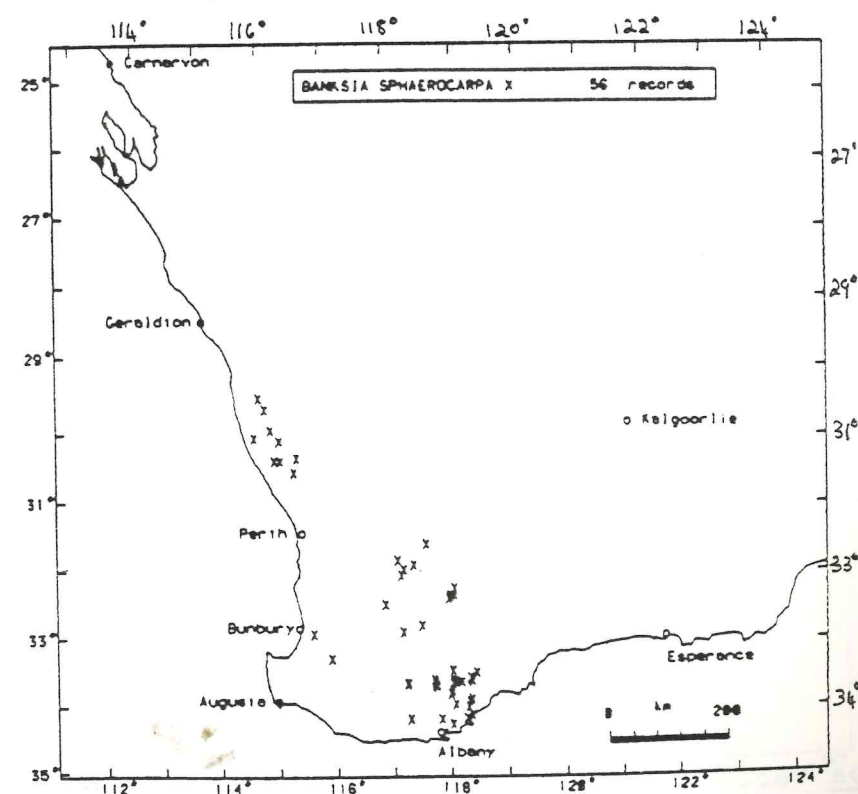
B. seminuda - extends from Nanga (B. & B. Backhouse) south to Blackwood River (J. Allen) and eastwards to Denmark (R. Mumford). Herbarium records indicate that this species extends as far east as Two Peoples Bay - volunteers please investigate.



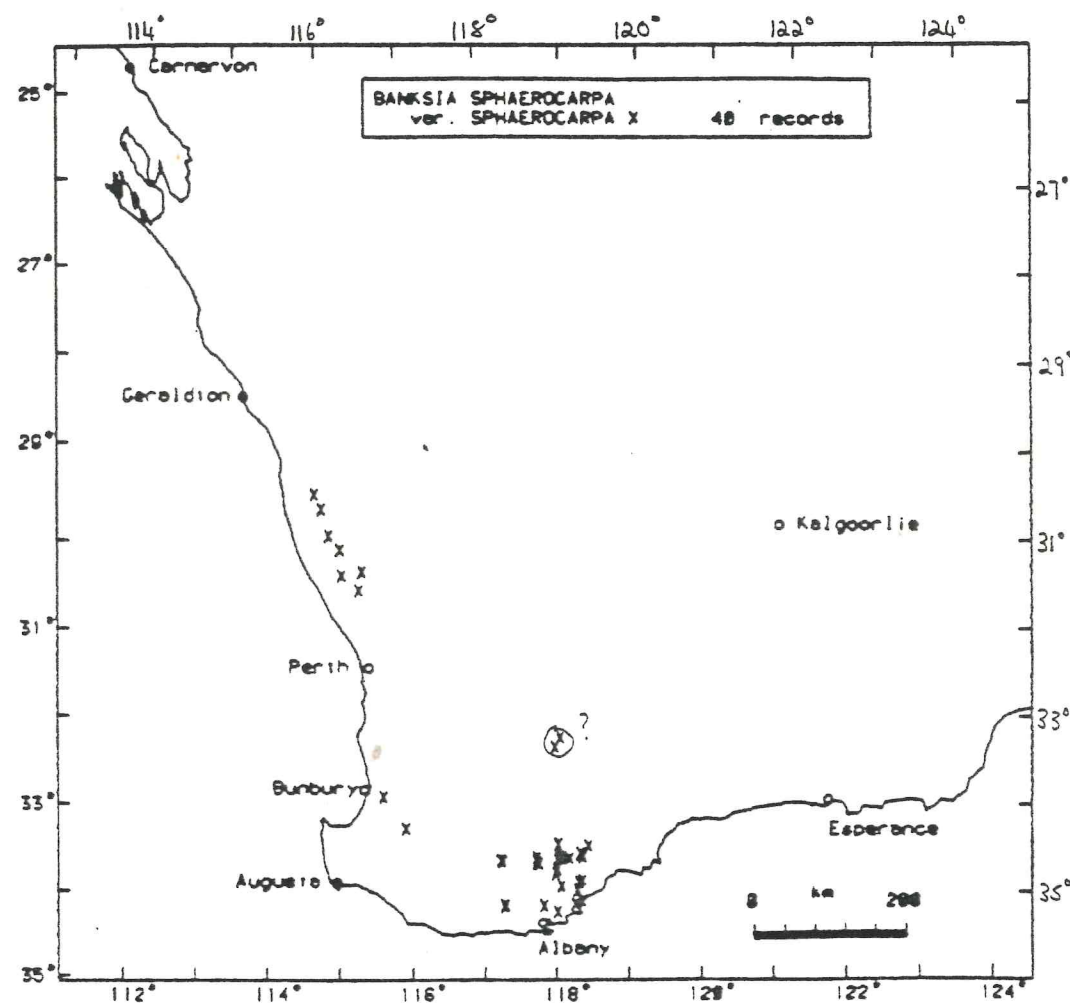
B. speciosa - extends from East Mt Barren (G. Velterop) eastwards to Mt Ragged (P. Booth). There are some large gaps between Hopetoun and Esperance - volunteers please investigate.



B. solandri - only 4 sight records all from the Stirling Range - Mondurup Peak (R. Hall), Mt Trio (R. Hall, P. Smith), and Bluff Knoll (A. Taylor).



B. sphaerocarpa - extends from Eneabba south to the Albany area and east to the Ironcap Rocks (var. *dolichostyla*).

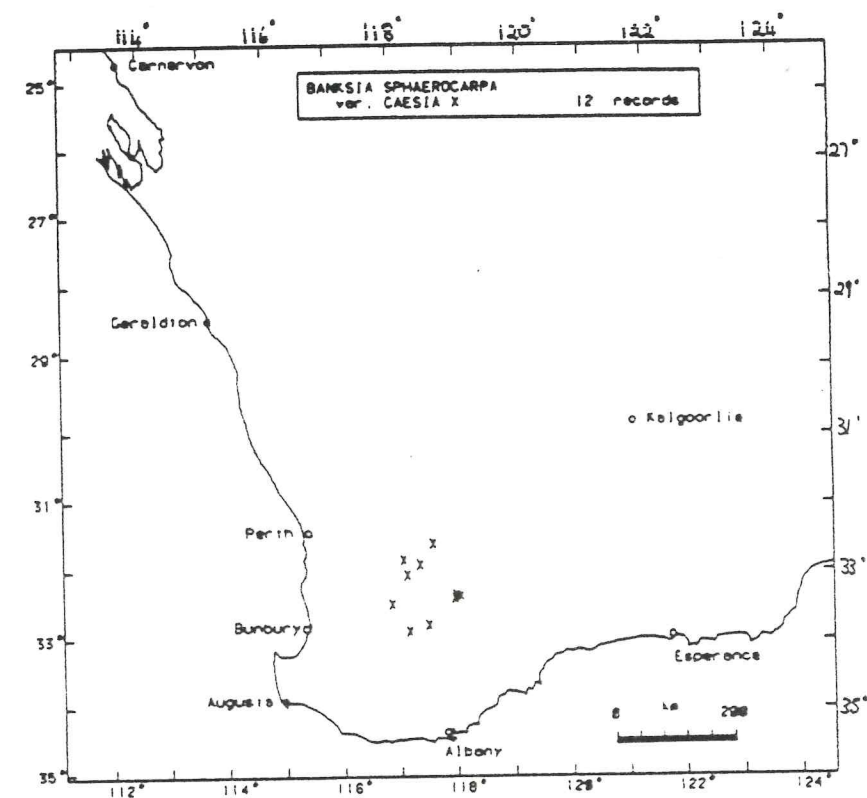


B. sphaerocarpa var. sphaerocarpa - three apparently disjunct populations. (1) - the southern group extending from Denmark (M. Bremner) to Cheyne Beach (J. Chilvers) and inland to the Stirling Range (R. Hall) and Greaves Hill (C. Napier). (2) - the northern group extending from near Eneabba (H. Hoffman) southwards to Moore River National Park (D. Coughran). (3) - S.E. of Bunbury are two sight records from Boyanup and Greenbushes (both H. & D. Gibbs).

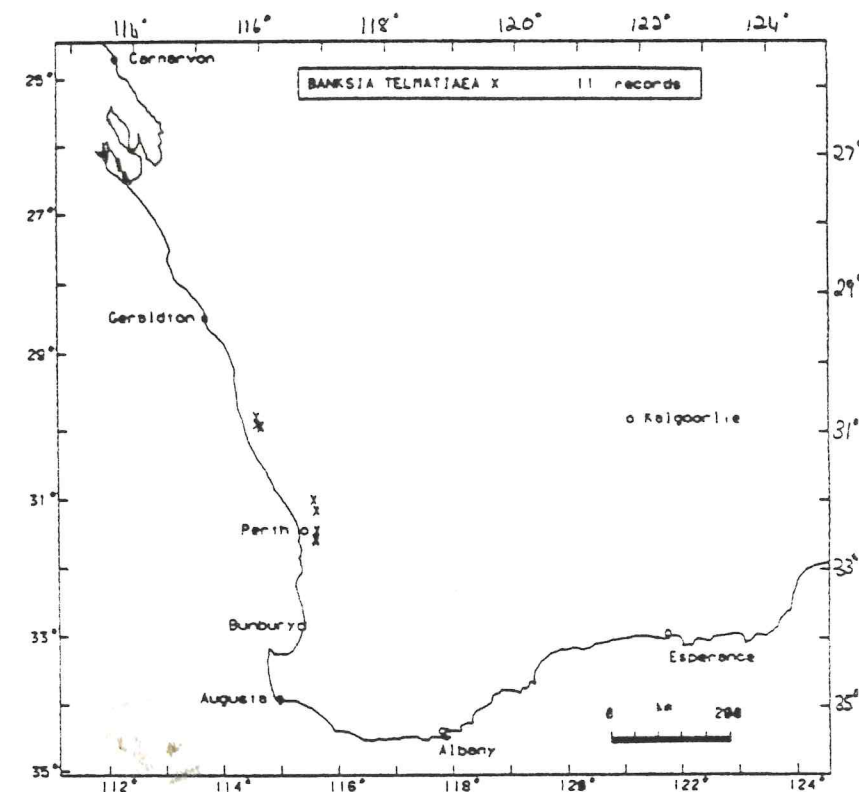
Herbarium records indicate many more localities between Gingin and Whicher Range (south of Busselton), mostly on the Darling Plateau. Such records would link populations (2) and (3). Volunteers please investigate.

The identity of the two isolated records from the central wheatbelt (Tarin Rock Reserve) has yet to be confirmed. If correct, this will be a very large range extension.

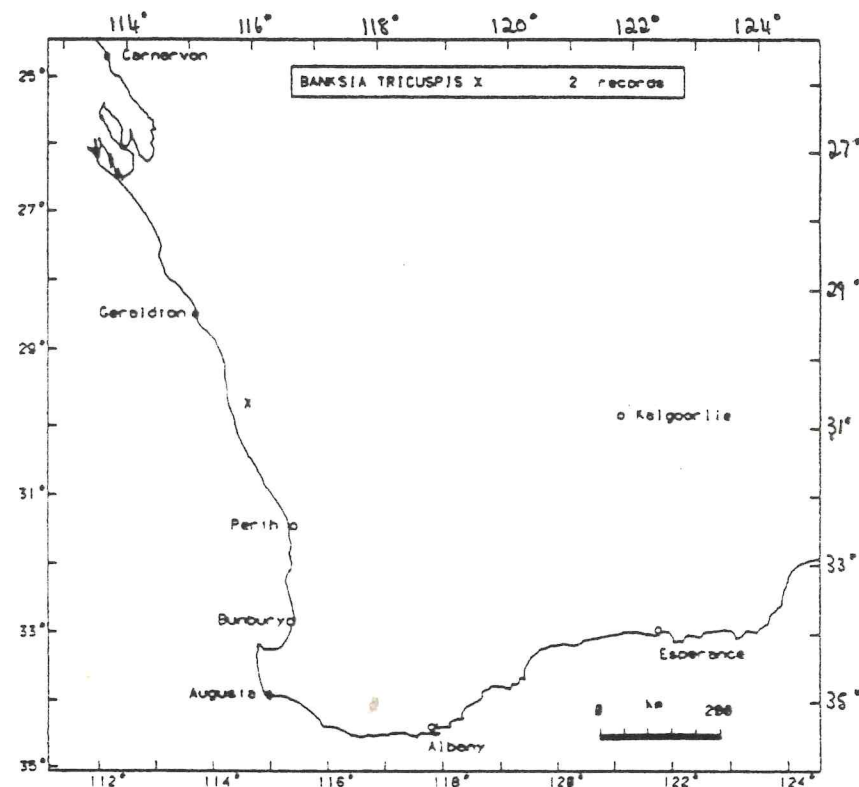
B. sphaerocarpa var. dolichostyla - no sight records received.



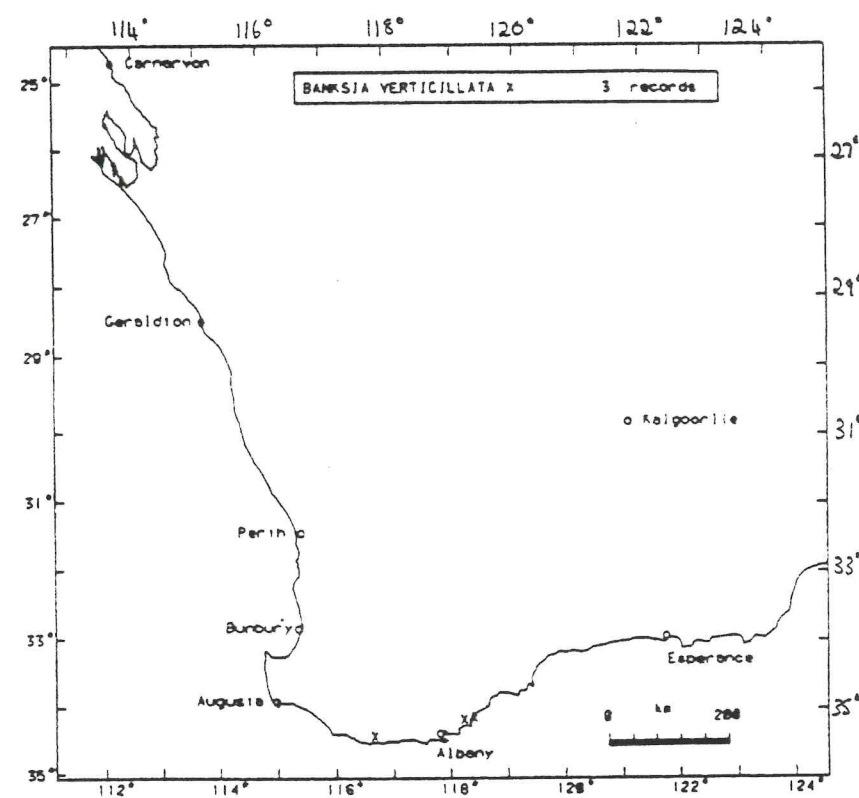
B. sphaerocarpa var. caesia - extends from Corrigin (G. Velterop) southwards to Woodanilling (R. & B. McGuinness). Herbarium records indicate that var. caesia has a much larger range - both northwards, westwards and eastwards - volunteers please investigate.



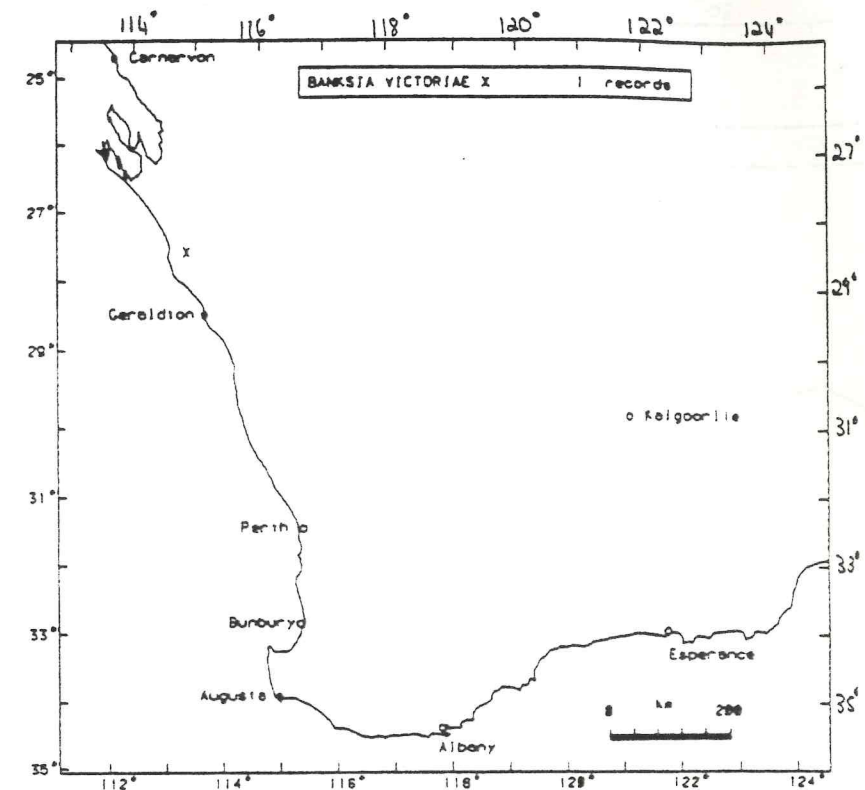
B. telmatiaea - 11 records extending from the Hill River area (T. Tapper) southwards to Lake Forrestdale (D. James). There is a considerable gap between Badgingarra and Muchea - volunteers please investigate.



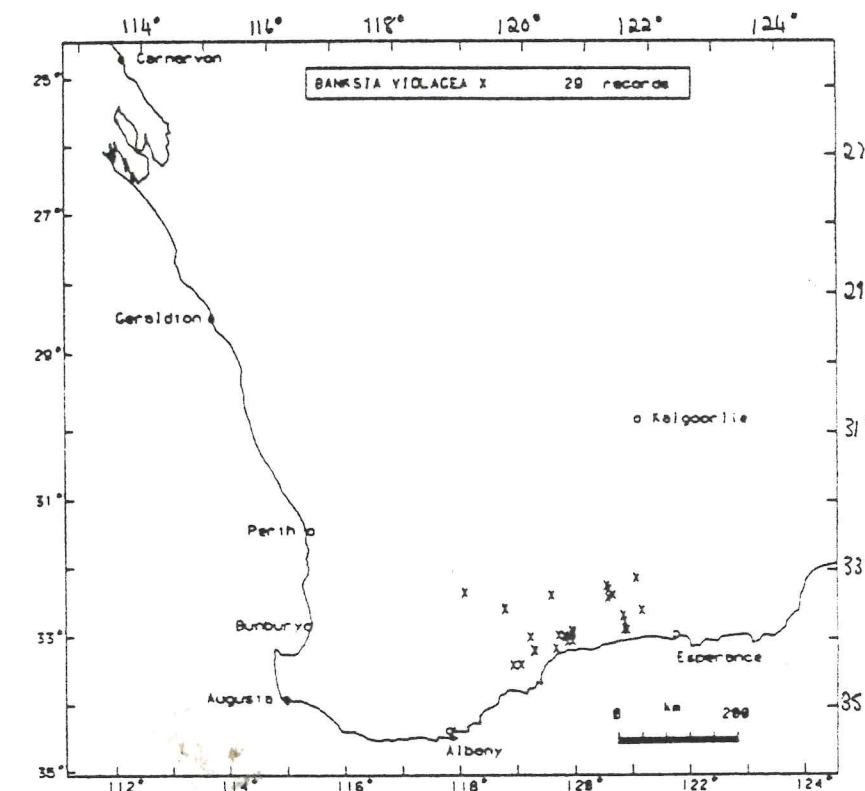
B. tricuspis - only 2 records (P. Mawson, M. Bremner) and both from Mt Lesueur to which area this rare species is restricted.



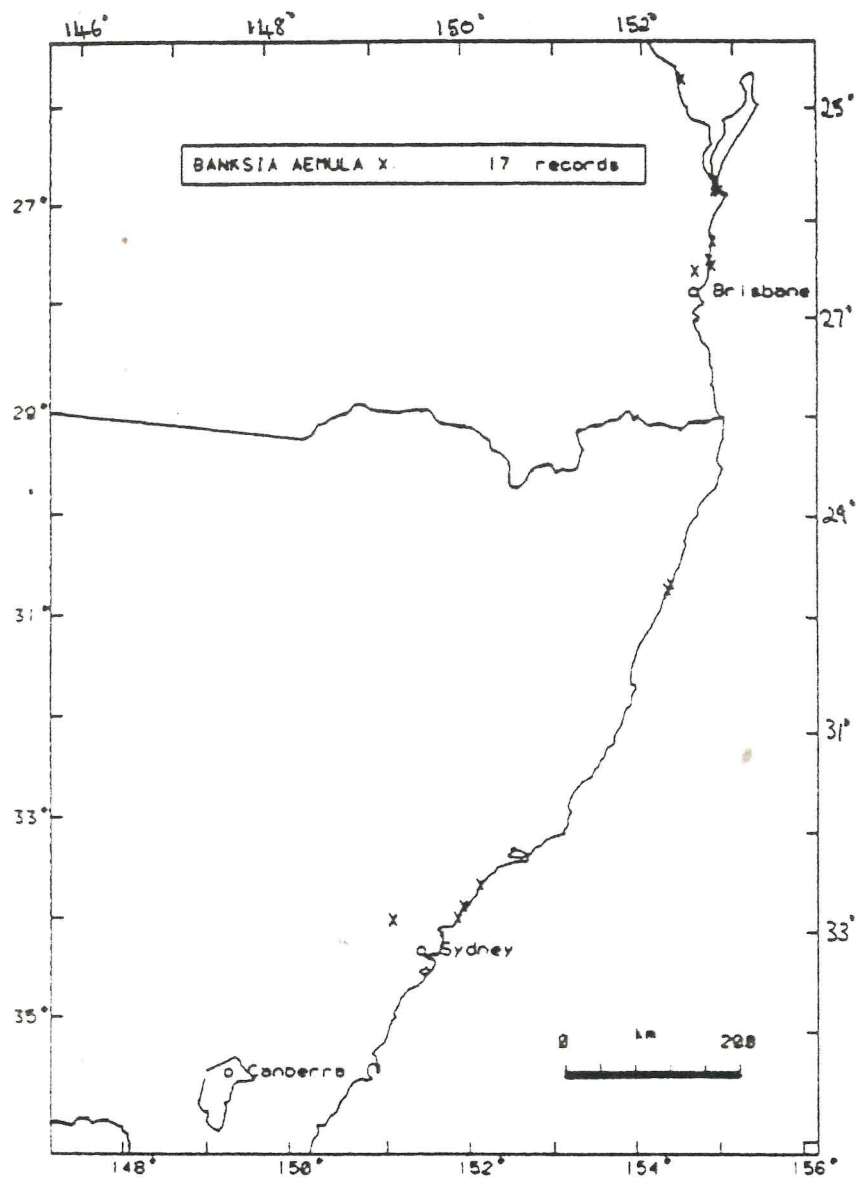
B. verticillata - only 2 sight records, one from near Walpole (G. Velterop) and the other from Mt Manypeaks (D. Davidson). Volunteers please check locations between these two points.



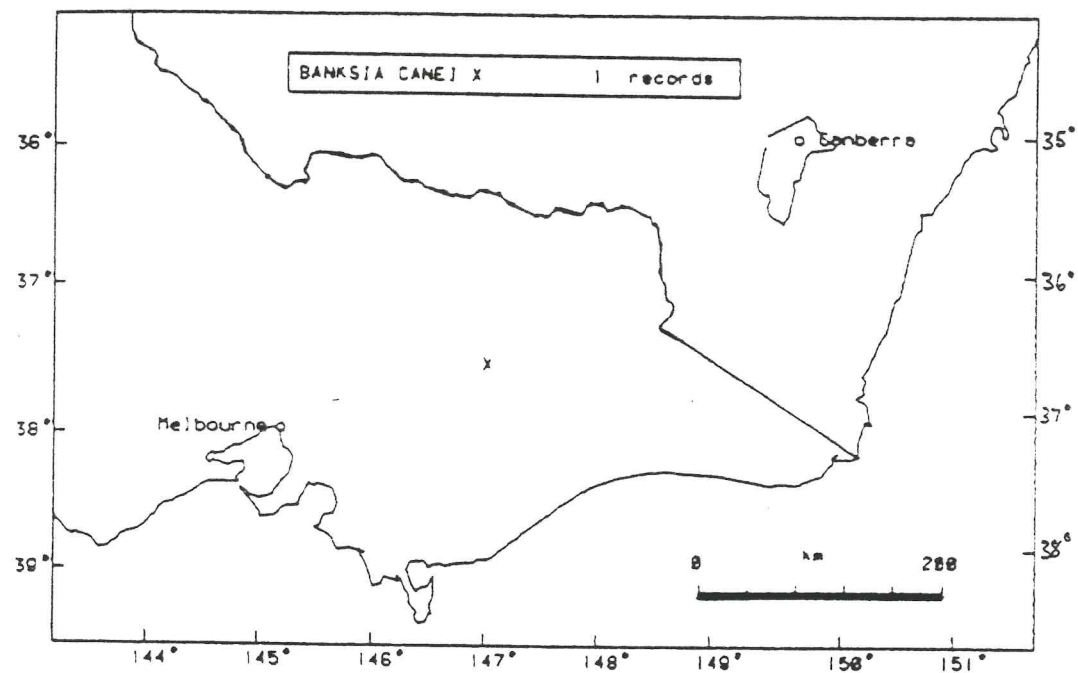
B. victoriae - only one record from Kalbarri National Park (D. & B. Bellairs). This is a very showy species of banksia which should be easy to record. Volunteers heading in the direction of Northampton or Kalbarri please keep a sharp look-out. Its bright orange and cream flowers open in summer.



B. violacea - extends between Tarin Rock (P. Mawson) and the western edge of the Fitzgerald River National Park (D. Sieber) then eastwards to Cascades area (G. Edwards) and almost to peak Charles (A. Taylor). Herbarium records suggest that this species occurs further westwards and northwards - volunteers please investigate.

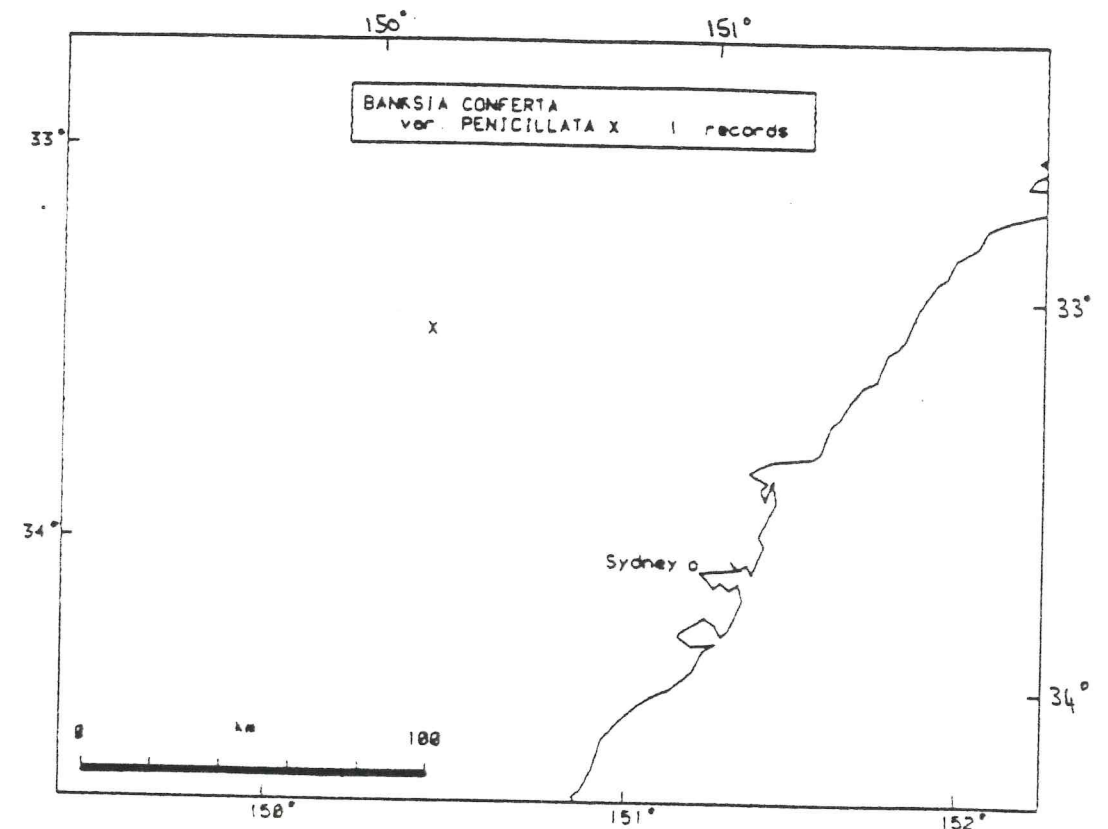


B. aemula - 17 records extending from Bundaberg (P. Taylor) southwards along the coast almost to Sydney (L. & A. Sourry). The single inland location is from Agnes Banks Nature Reserve near Richmond (B. Walters). Prior to this record B. aemula had only been recorded in near coastal areas.



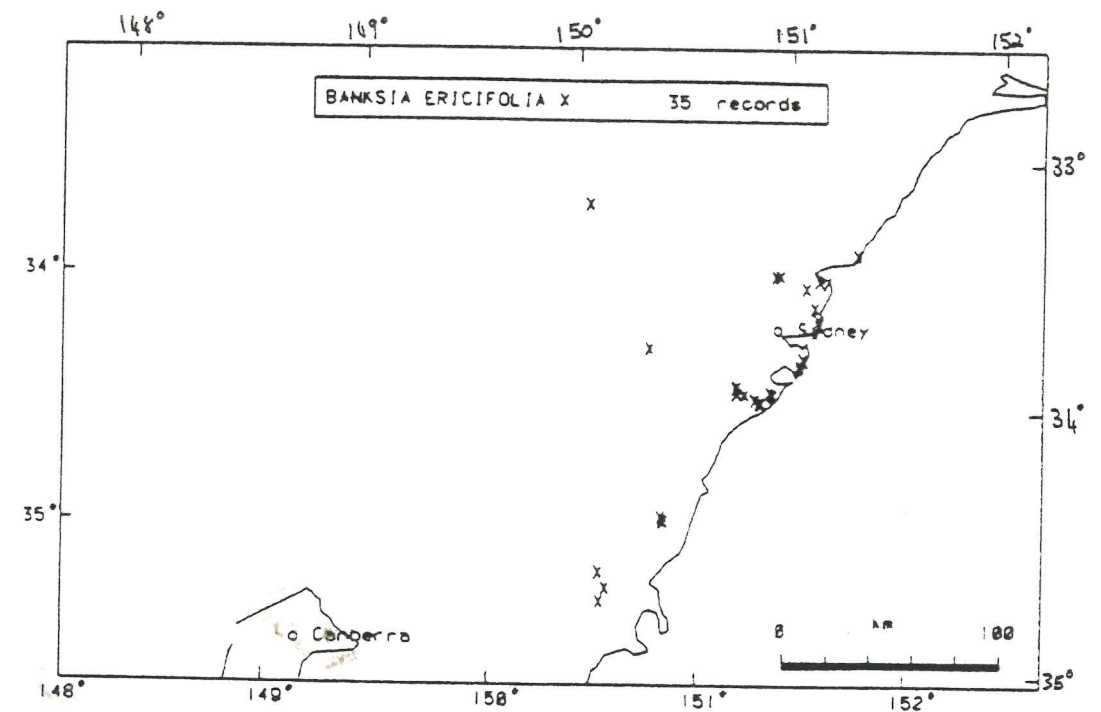
B. canei - only one sight record from near Mt Buller (A. Salkin).

B. conferta var. conferta - no sight records.

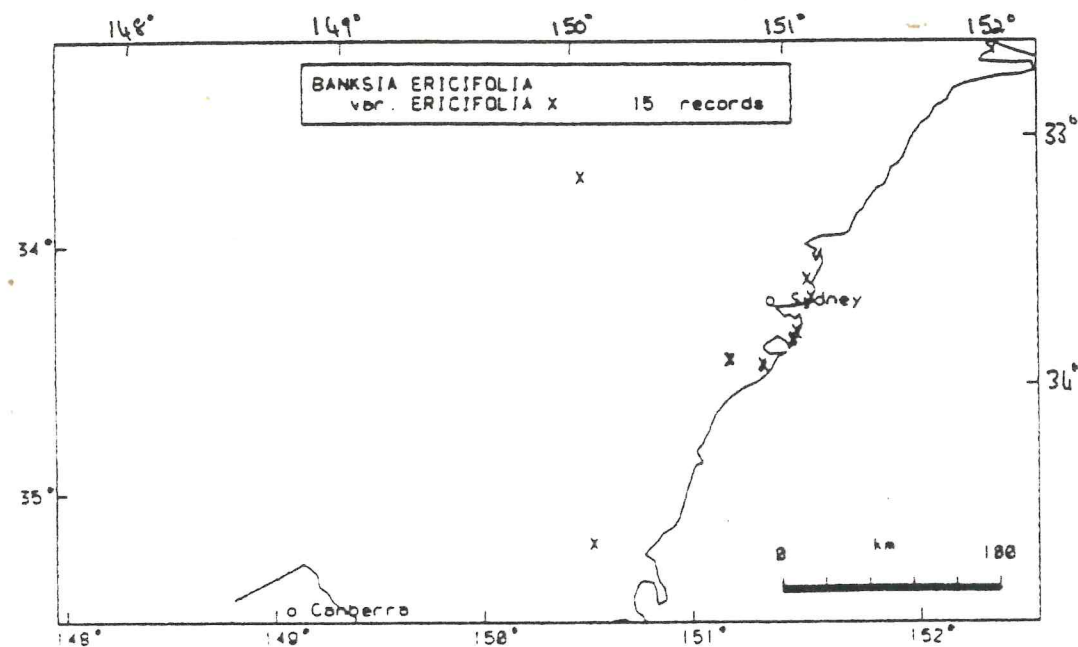


B. conferta var. penicillata - only one record from Newnes Plateau (A. Taylor).

B. dentata - no sight records received.

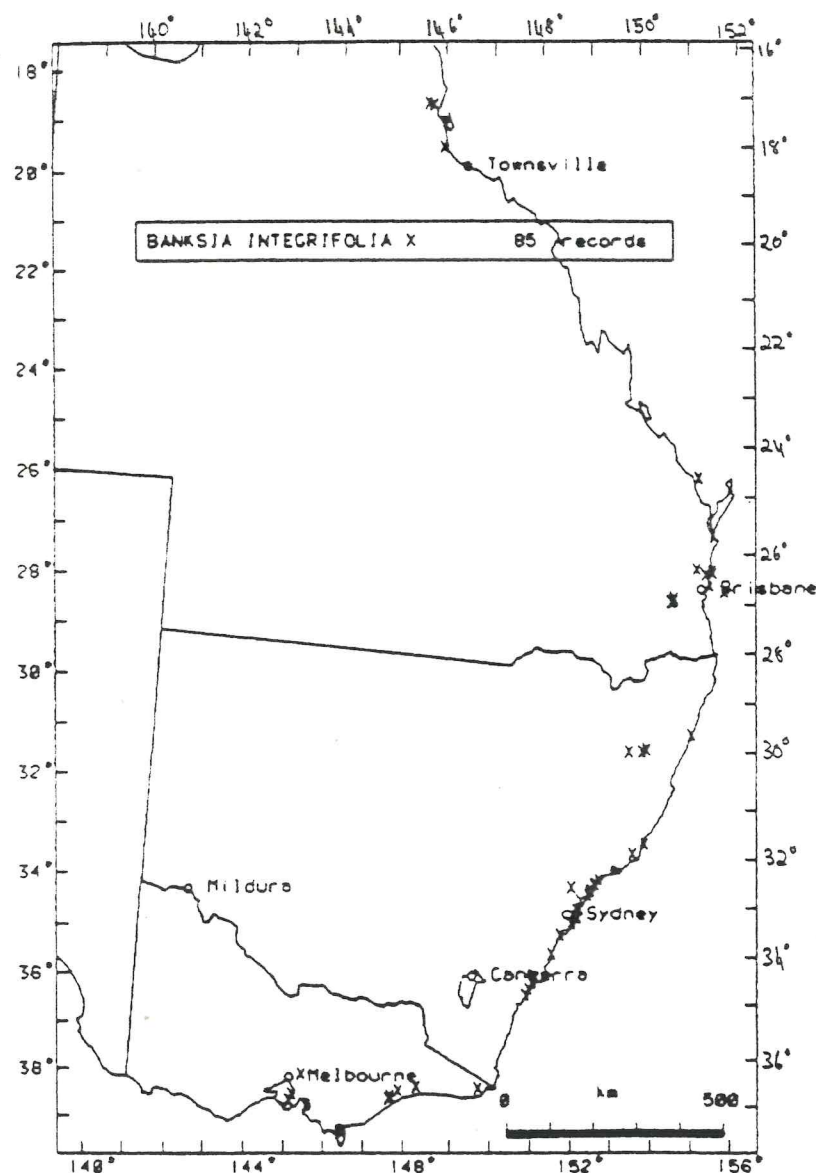


B. ericifolia - 35 records extending from Bouddi National Park (L. & A. Sourry) southwards to Jervis Bay (K. Mills) and inland to Lithgow (E. Williamson). Many of these records have no variety specified.

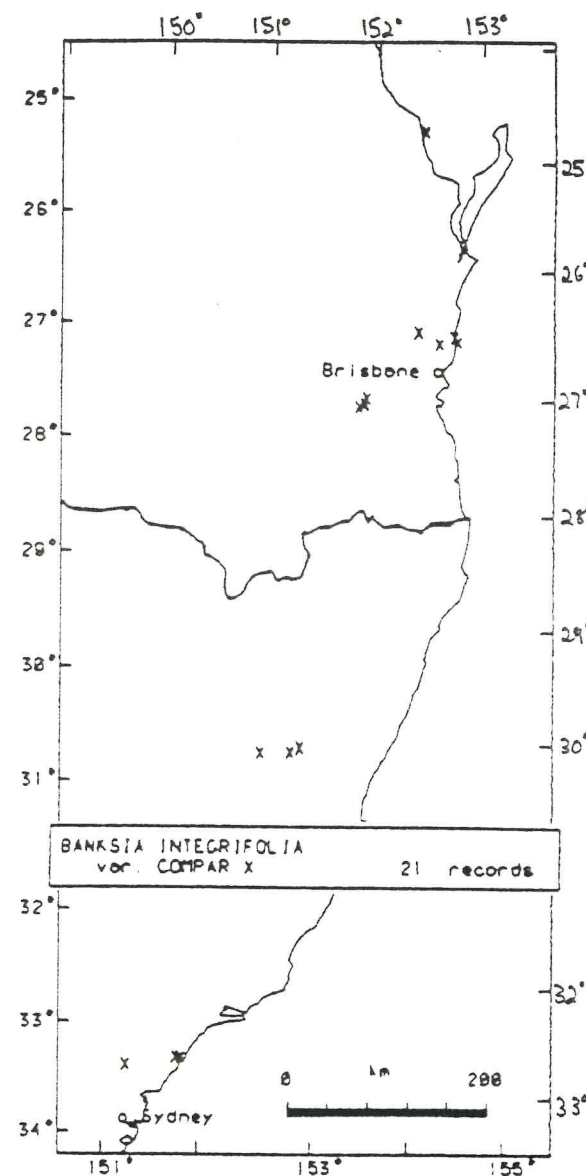


B. ericifolia var. ericifolia - there are far less records specified as var. ericifolia than those identified only at the species level. For var. ericifolia, the most northern coastal population is recorded from Ku-Ring-Gai Chase National Park. The southern and inland extremities remain the same.

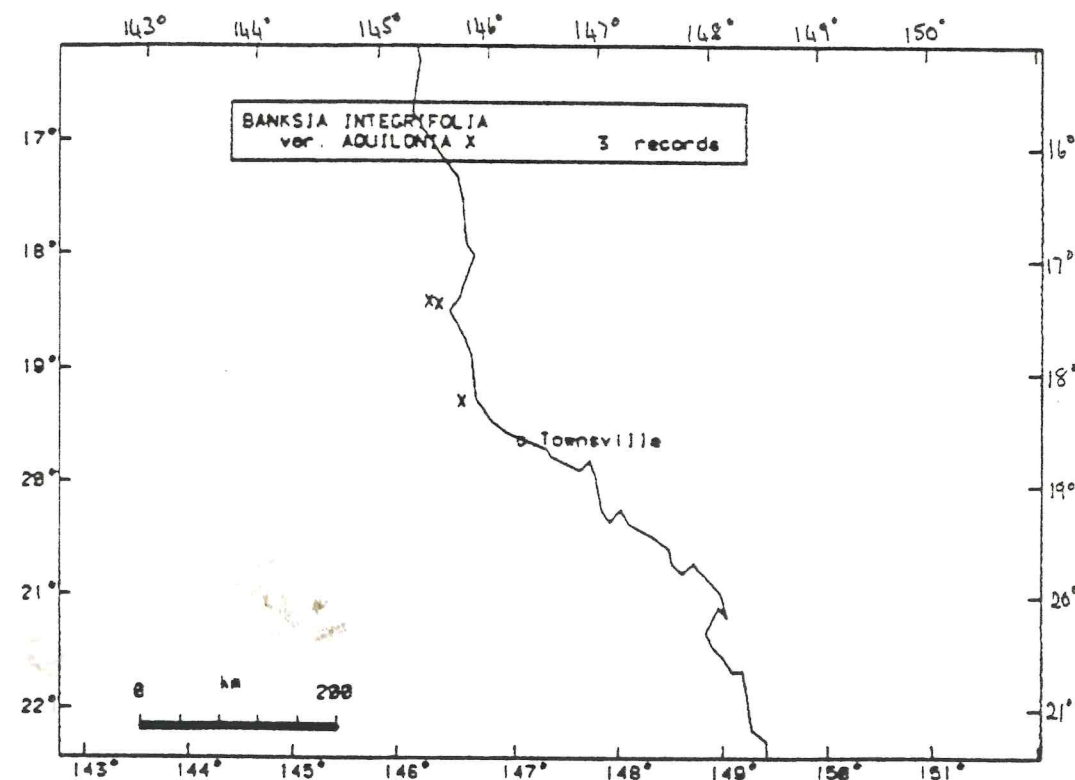
B. ericifolia var. macrantha - no sight records.



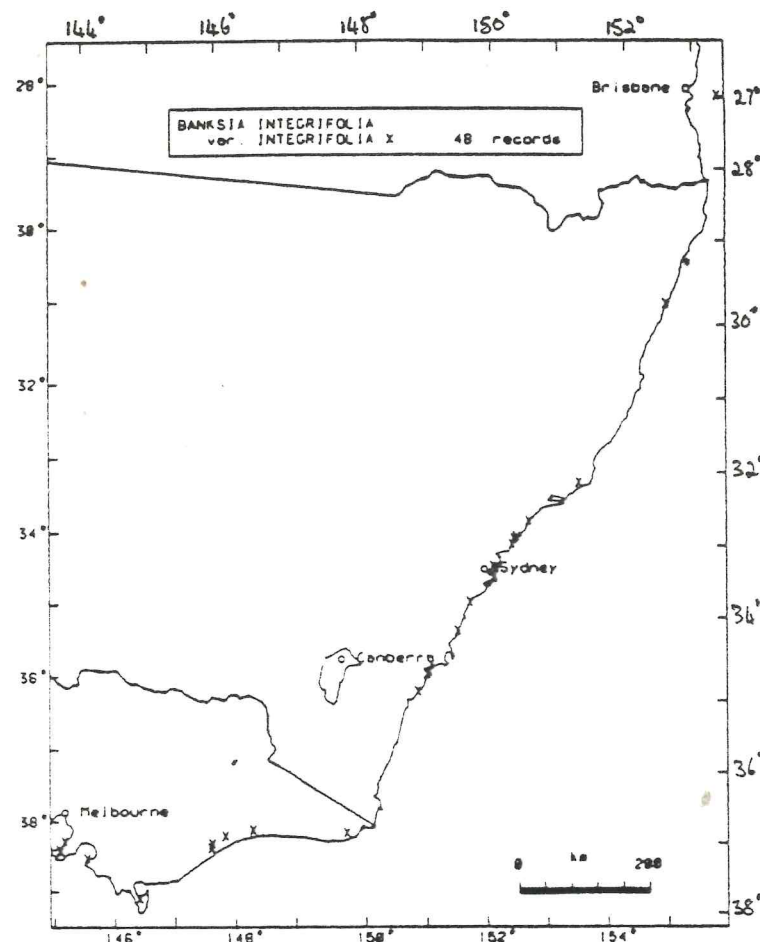
B. integrifolia - covers an enormous geographical range with sight records extending from Victoria through New South Wales and into Queensland. The most northerly sight record is from the Cardwell Range (G. Crowley).



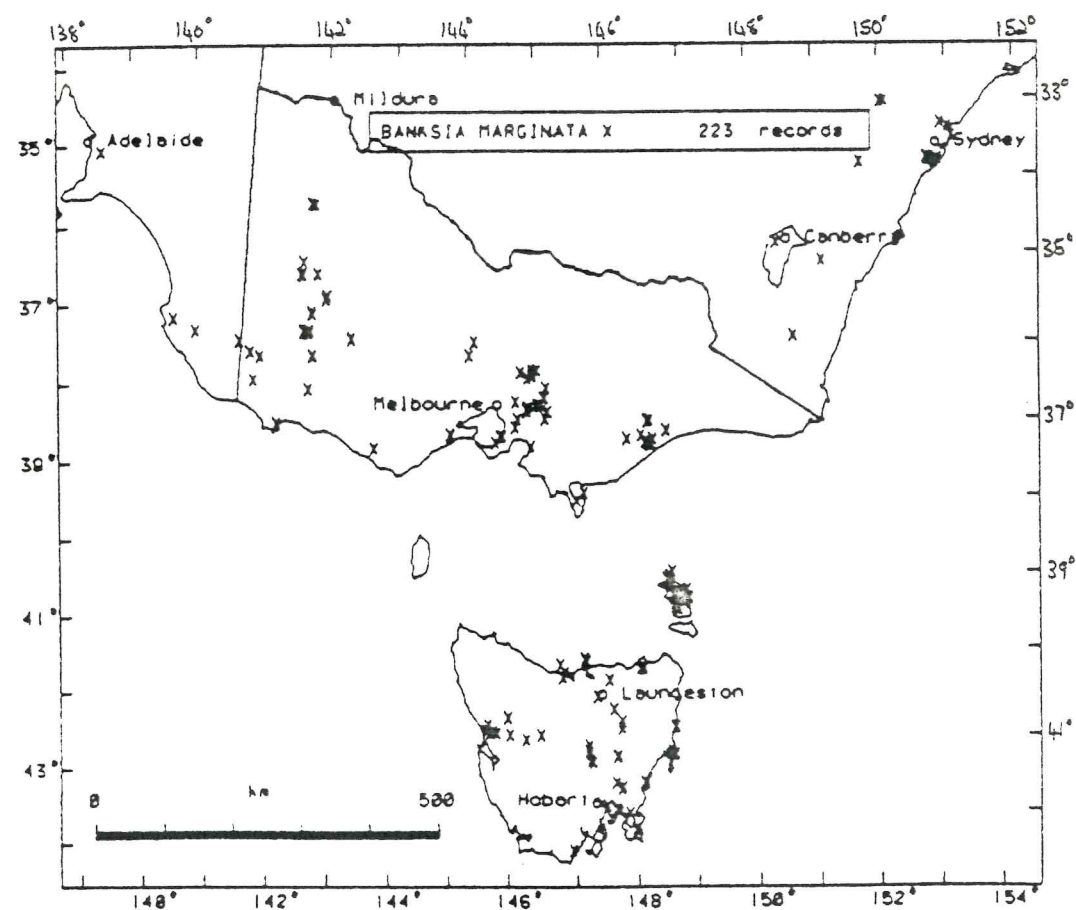
B. integrifolia var. compar - very few records of this banksia, especially since the 3 records from north of Sydney all have yet to be confirmed. The 3 records from northern N.S.W. are from the New England National Park area (I. Fardon, A. Taylor). The Queensland records are from Landsborough and Conondale (E. Williamson), Buderim (T. Bean), Gatton and Esk (V. Robertson), Bundaberg (P. Taylor).



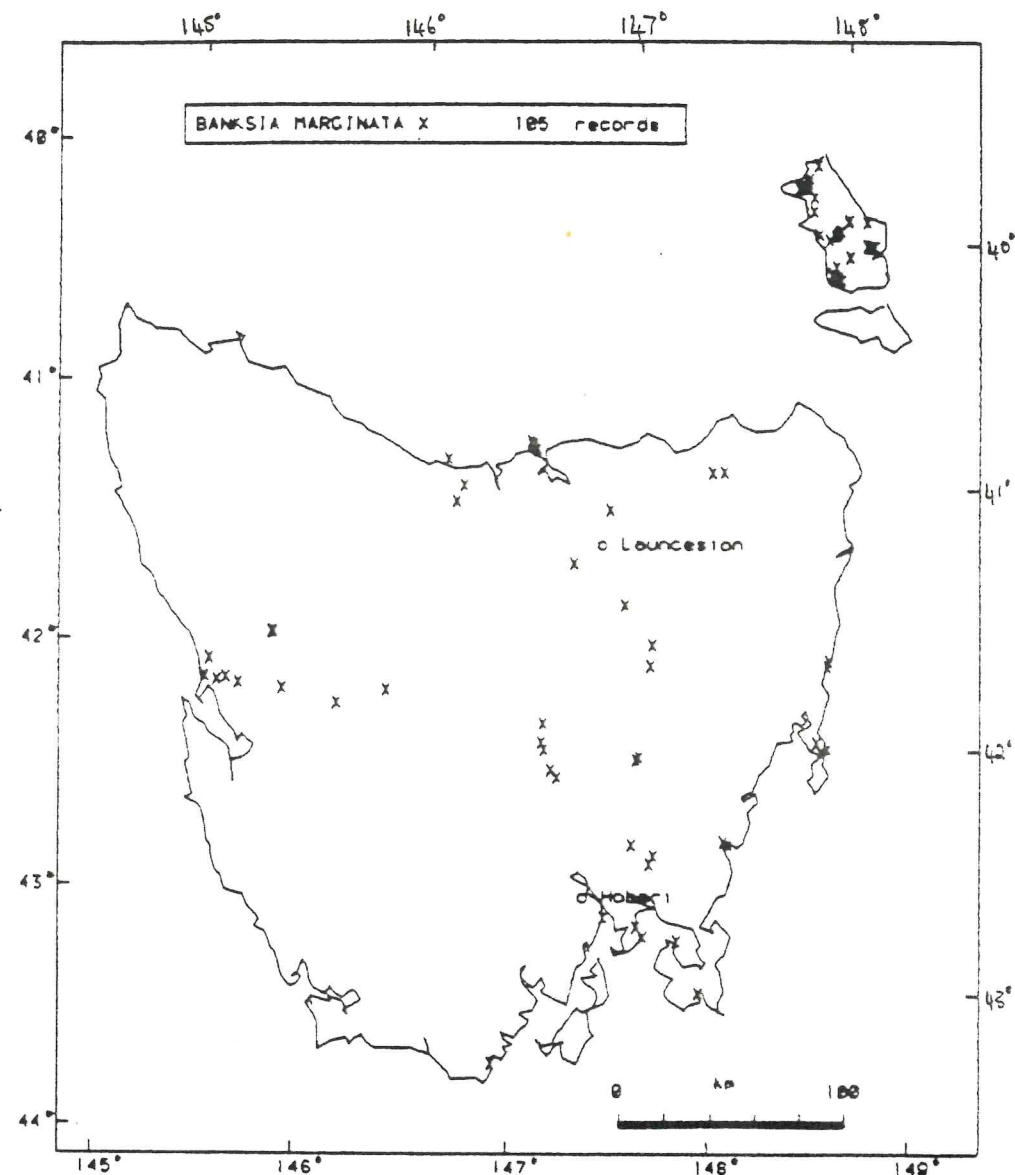
B. integrifolia var. aquilonia - only 3 records all from the Ingham area (G. Crowley).



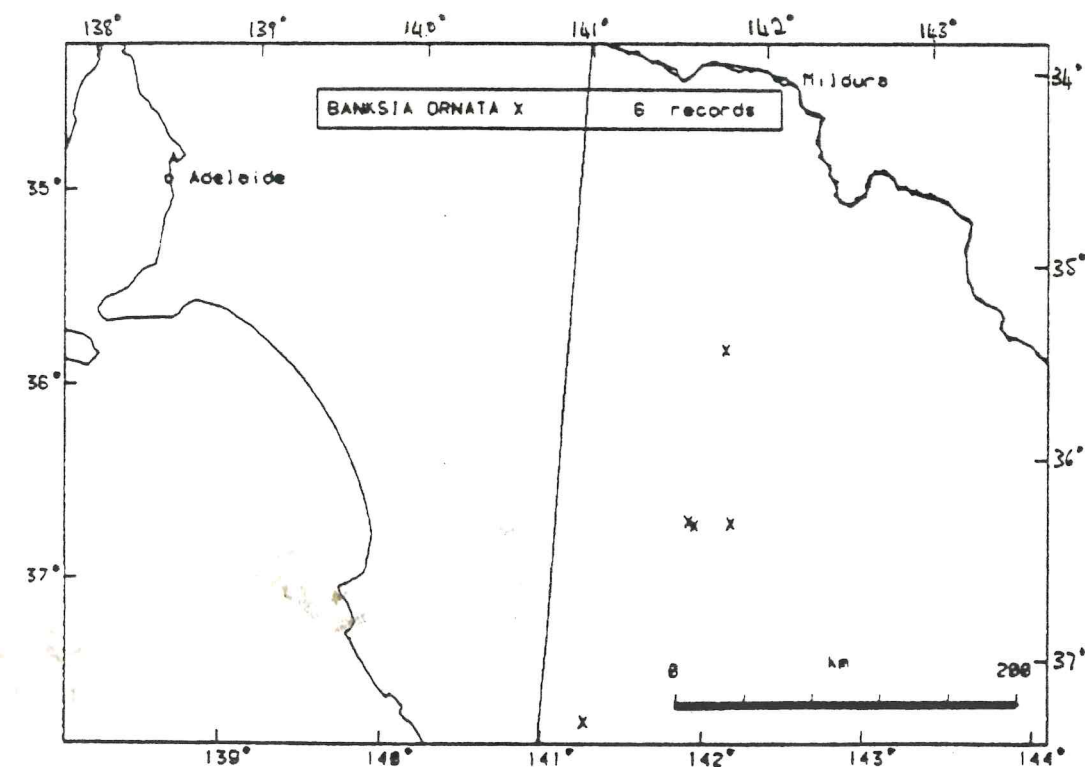
B. integrifolia var. integrifolia extends from Moreton Island (P. Harris) southwards along the coast as far as Port Phillip Bay (A. Salkin, M. May).



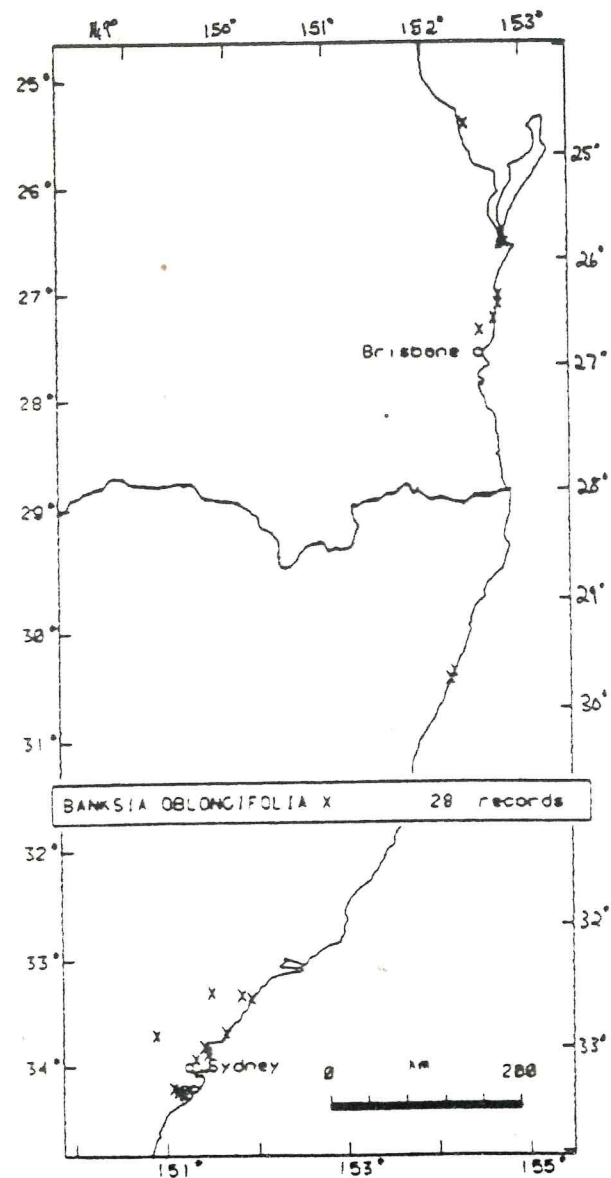
B. marginata - a good number of sight records extending from Kangarilla, S.A. (A. Moore) through Victoria to Ku-Ring-Gai Chase National Park (J. Steenson, M. Wood). Inland it extends to Wyperfield National Park, Vic. (C. Brownsea) and Lithgow, N.S.W. (E. Williamson). Herbarium records indicate that B. marginata occurs considerably further inland and almost to the Queensland border - volunteers please investigate.



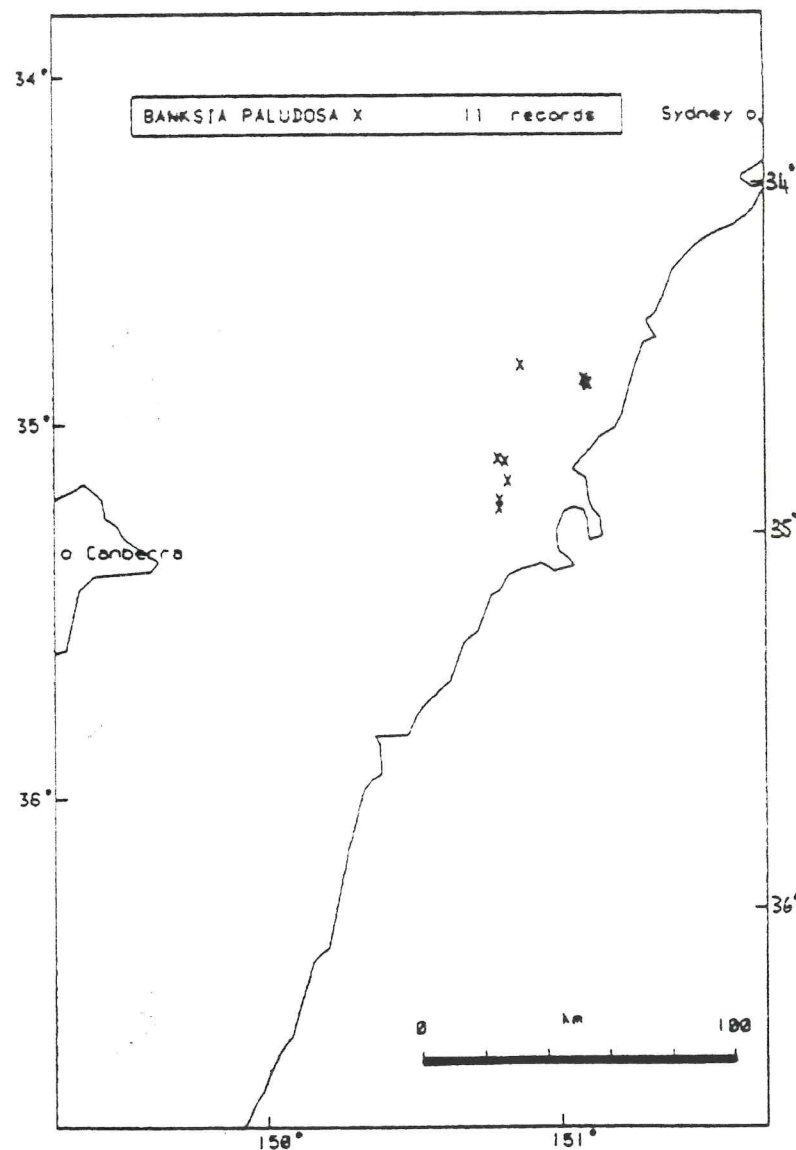
B. marginata - a good number of records from Tasmania. The apparent linear distribution may be more to do with the alignment of main roads rather than the true distribution of B. marginata! Volunteers please start walking and investigate!



B. ornata - only 6 records of B. ornata extending from Wyperfield National Park (C. Brownsea) southwards to near Casterton (P. Taylor).

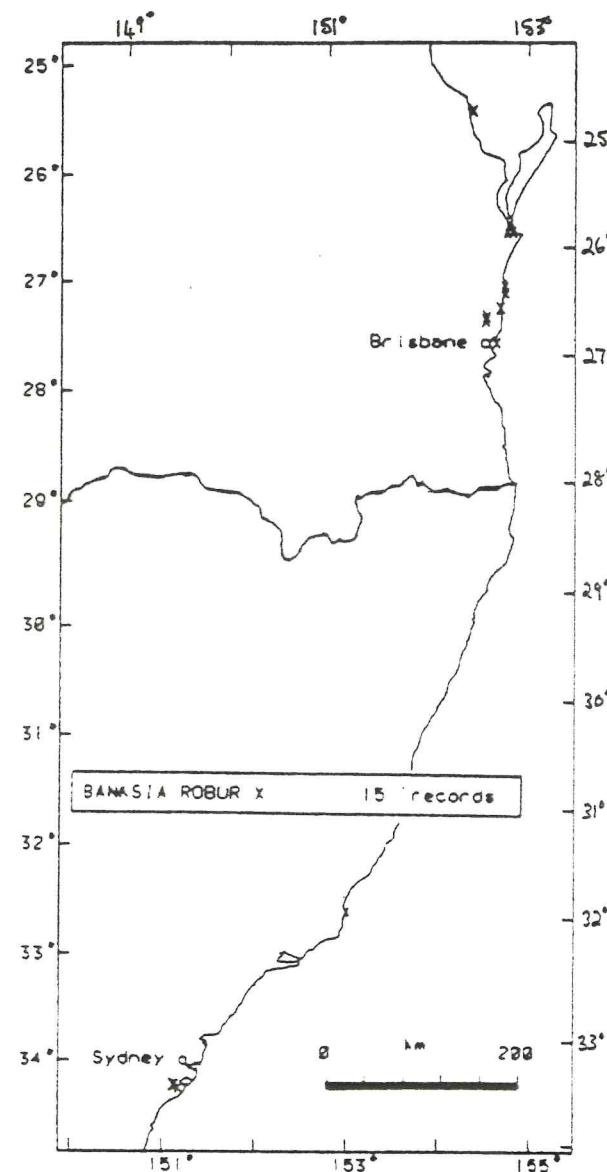


B. oblongifolia - extends from Bundaberg (P. Taylor) south to Royal National Park (J. & L. Adams, C. Mills).

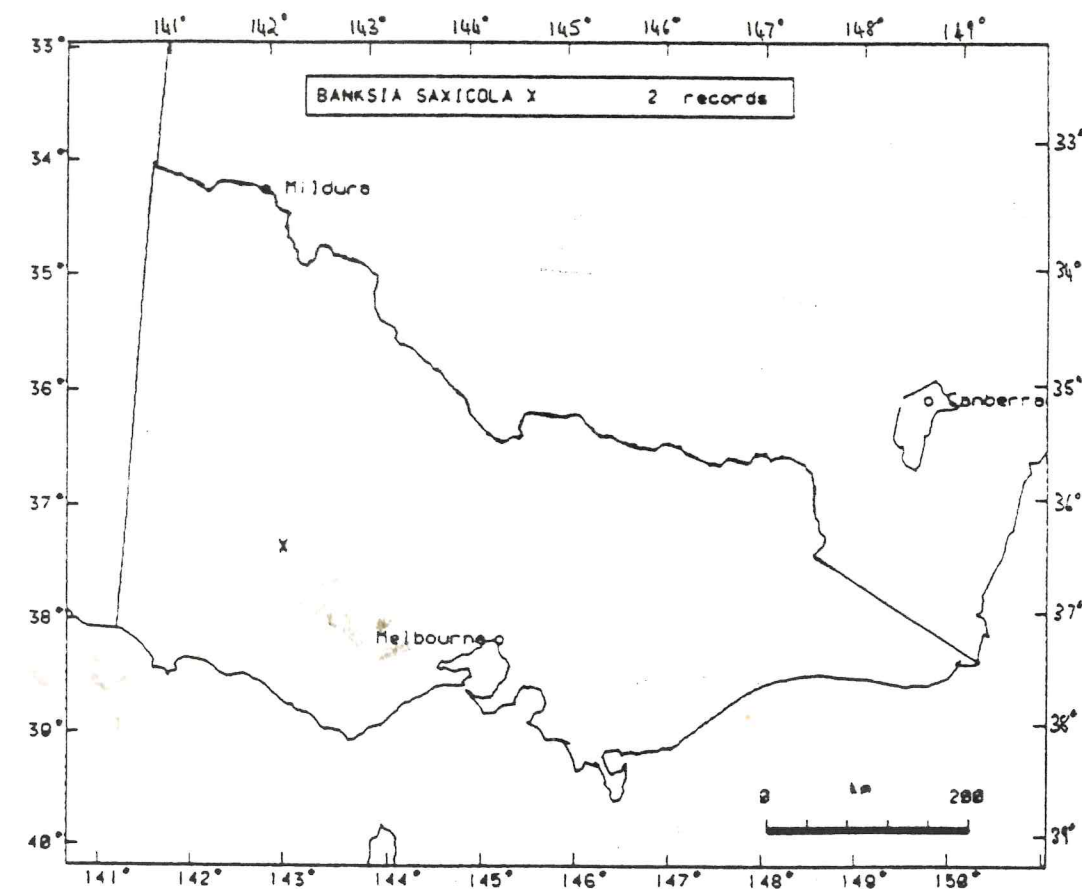


B. paludosa - records extend from Fitzroy Falls (K. Mills) and Barren Grounds (P. Jordan) South to Boongan Mountain (K. Mills).

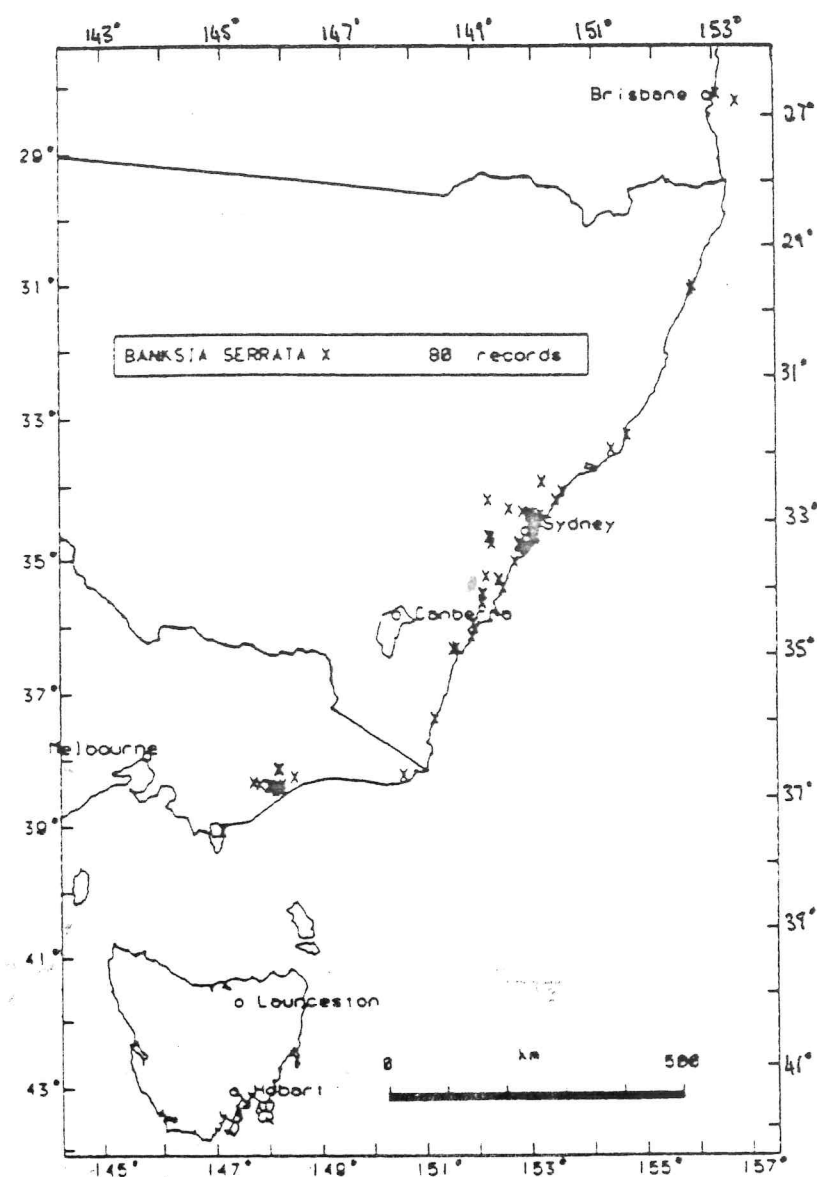
B. plagiocarpa - no sight records.



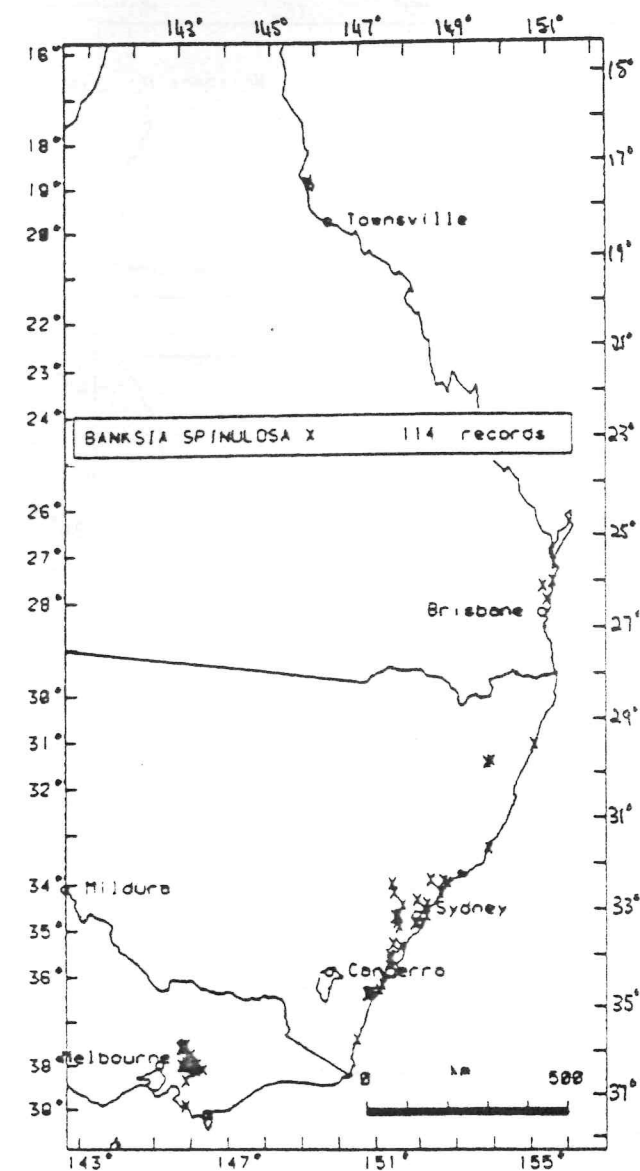
B. robur - records extend from Bundaberg (P. Taylor) southwards to Royal National Park (J. & L. Adams). The single coastal record between Sydney and Brisbane is from Boomerang Beach, near Forster (R. Tompson).



B. saxicola - only 2 records and both from Mt William in the Grampians (A. Salikin).

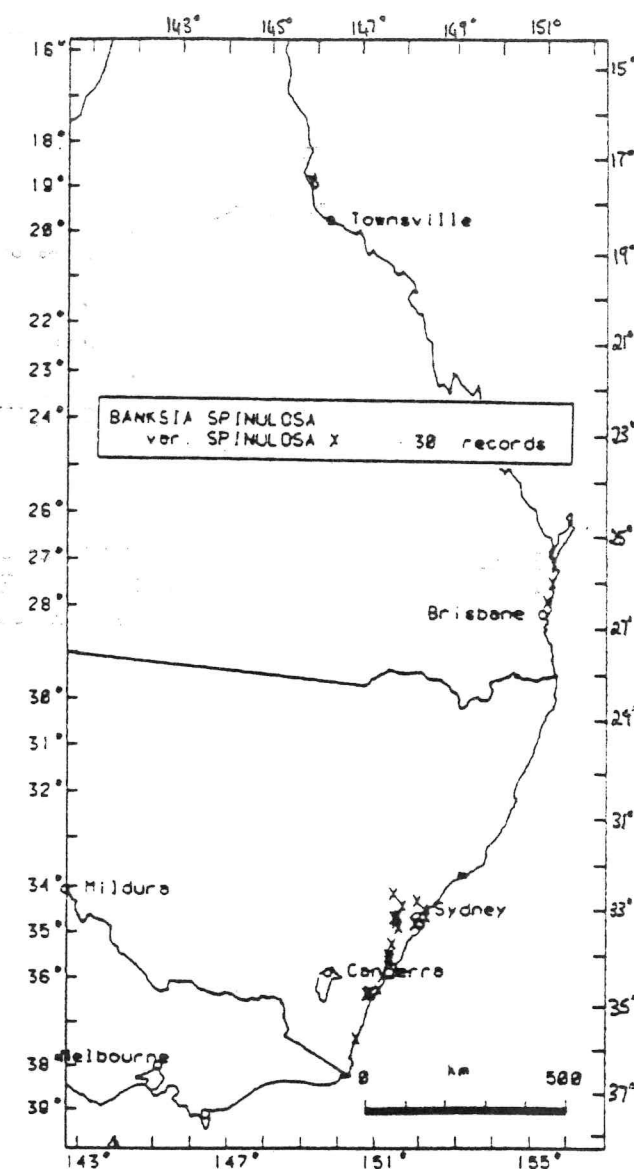


B. serrata - sight records extend from Bribie Island (S. & M. Le Fanu) and Moreton Island (P. Harris) southwards through New South Wales to Rosedale, Vic. (A. Hallpike).

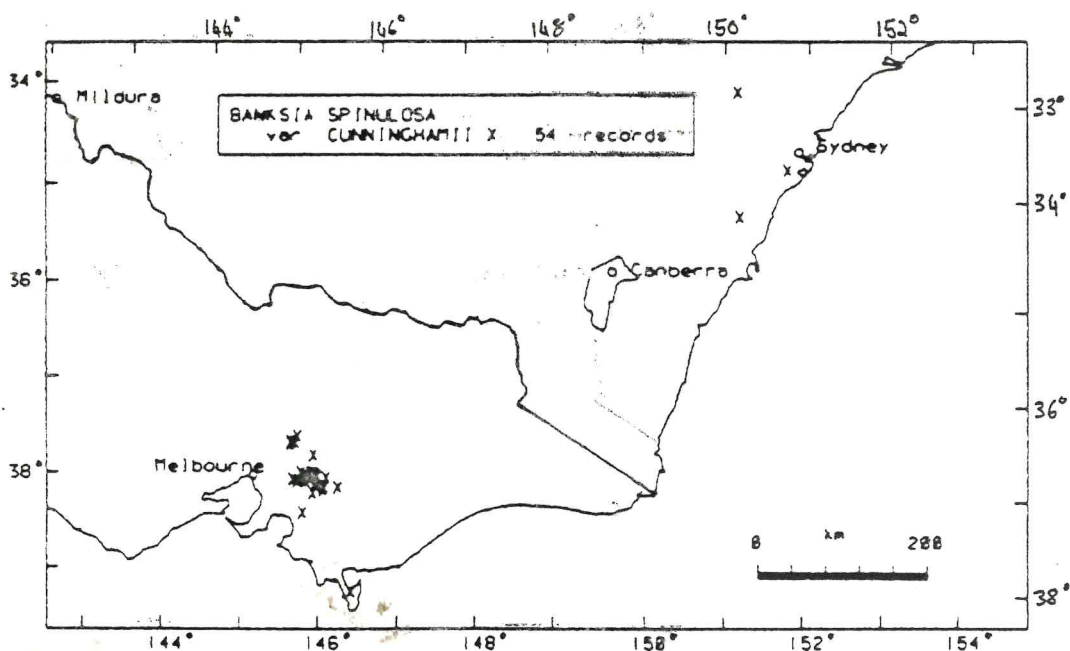
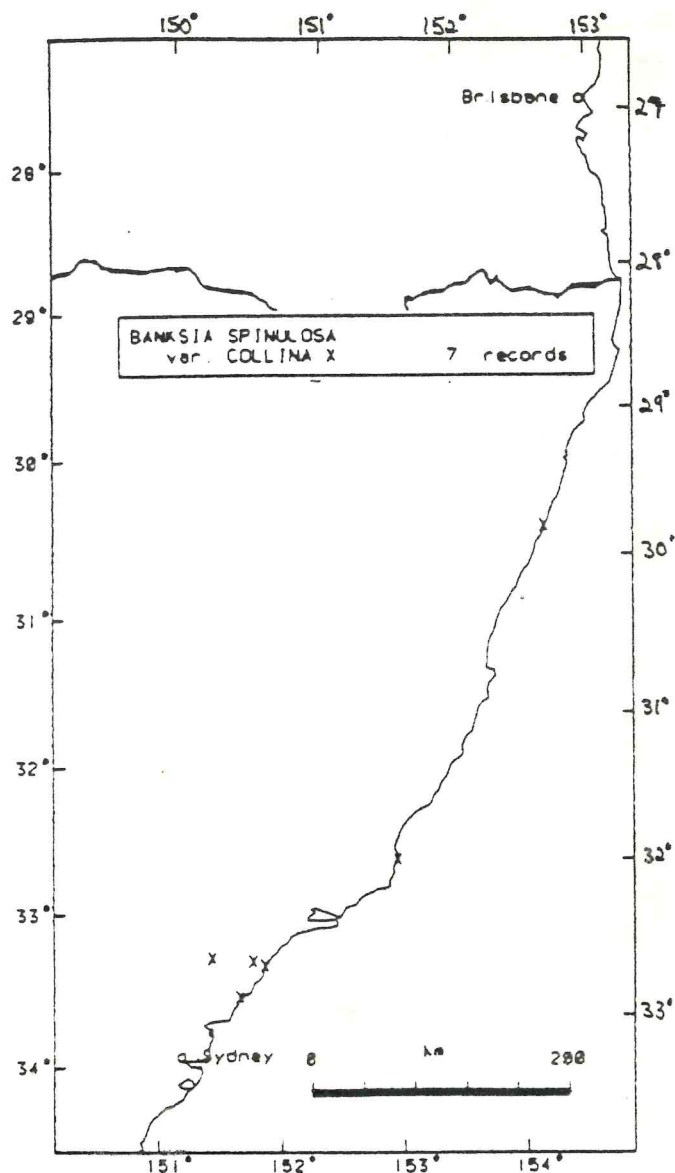


B. spinulosa var. *spinulosa* - records extend from Tewantin, Qld. (T. Bean) southwards to Murramarang National Park (A. Taylor).

B. spinulosa - a good number of sight records though largely in two groups - one in Victoria, the other in central New South Wales. The records from New England and Cathedral Rocks National Parks are of the possible new variety of *B. spinulosa* reported in Newsletter No. 3.



B. spinulosa var. collina - only 7 records from Yuraygir National Park (A. Taylor) southwards along the coast to Bateau Bay (L. & A. Sourry). The inland sight record is from Kulnura (J. Jeavons).



B. spinulosa var. cunninghamii - a good number of records, though largely from Victoria - from Kinglake (A. Hallpike) to Garfield (D. Twaits). In New South Wales the records are from Newnes Plateau (A. Taylor), Woronora Trig point (K. Mills) and Fitzroy Falls (K. Mills).