

What We Did – Svy Units based in VICTORIA

Contributors: Clem Sargent (CS); Bob Skitch (BS); Kevin Moody (KM); Noel Sproles(NS); John Leworthy (JL) Richard Jackson-Hope (RJH)

YEAR	UNIT	OPERATION/ PROJECT	DURATION	LOCATION	NATURE OF WORK UNDERTAKEN	PERSONS TAKING PART	OTHER INFORMATION
1946							
1947							
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1950							
1951							
1952							
1953							
1954 CS	S Comd Fd Svy Sect	No name	Feb - May	Based at Albert Park	Minor trig and photo annotation for Ringwood and Wangaratta 1:63,360 maps	Maj Harry Raisbeck, Capt Dick Nutt (RE), Lts Paul Legge- Wilkinson, Clem Sargent, WO1 Fraser Matthews, WO2 Keith (Acky) Barber; Sgts, ? Handby, Brian Jordan, Stan Payne, Harold Watts; Cpls Allan Pollard, Norm Tupper; Sprs Barry Broad, Len Davies, Mick Dwyer, Frank White, ???	
1954 CS	S Comd Fd Svy Sect	No name	Jun - Dec	Based at Mildura	3 rd order and minor control for 1:63,360 (1:50,000) mapping	Lt Clem Sargent, Cpl N Tupper, Sprs Len Davies, Trent Carey	
1954 BS	NG Svy Unit (raised for the duration of the project)	Project Xylon	Aug 54 – Jun 55	TPNG - Rabaul	Mapping by the shore – ship technique of triangulation the perimeter of New Britain	OC Capt SW (Spencer) Snow, Lt Don Ridge, Lt Paul Legge- Wilkinson, Lt Arthur Tarrant, Sgts Snow Ralston, Bill Miller, Cpls Malarchy Hayes, Bev Uwins, Peter Frodsham, Col Pugh, Pat Wood, Spr Barry Broad and many others. US Army Project Officer Captain William Kaula.	Shore-ship survey carried out from US Army Ship FS 216 under US Captain Mellor. US Army survey personnel also deployed.
1955	S Comd Fd	No Name	Jan - Apr	Based at	Astro control, Annotation,	Lt Clem Sargent, WO1 Fraser	

CS	Svy Sect			Mildura	Heighting	Matthews, Sgt Harold Watts, Cpl Frank White plus?????	
1955 CS	S Comd Fd Svy Sect	No Name	May - Jun	Ouyen	Ouyen-Mildura – establish, observe 2 nd order trig chain	Maj Bob Hammett, Capt Clem Sargent, Lt Mal Nicholas, WO1 Fraser Matthews, Sgts Harold Watts, Brian Jordan, Mick Dwyer Cpls Norm Tupper, Jim Maher, plus others	Bilby Towers used
1956 CS	AHQ Svy Regt	No Name	Feb - Jun	Tasmania Snowtown	1/63 360 mapping	Lt Mal Nicholas plus 1	
1956 CS	AHQ Svy Regt – Topo Sqn	No Name			Ouyen-Mildura 2 nd order trig chain – estb and observe	Capt Clem Sargent, Sgt Keith Todd, Cpl Norm Tupper, Sprs Bruce Cockburn, Tom Royle plus others	Bilby Towers used
1956 BS	AHQ Svy Regt – Topo Sqn	No Name	Aug – Sept (6 weeks)	Rabaul – New Britain	Cadastral relocation of Wannabugbug Plantation	Lt Mal Nicholas, Sgt Percy Long, Cpl Jim Maher, Sprs Joe Farrington, Bob Skitch	Task preceded Project Cutlass. Chosen as site for a proposed second PIR
1956- 57 CS BS KM	AHQ Svy Regt – Topo Sqn	Project Cutlass	Aug 56 – Dec 57	Kavieng New Ireland	Theodolite & chain catenary traverse from Kavieng to Namatanai, Shore/ship triangulated traverse along remaining coastline and off-shore islands, with triangulation connections to New Britain, New Hanover, Lehir Is, Green Is. La Place astro azimuth obs on shore ship baselines and ex-meridian azimuth obs each 10 miles of chain and theodolite traverse , Traverse astro team Cpls Frodsham, Farrington, Skitch Shore/Ship baselines – Lt Nicholas	Maj Spencer Snow, Capt Clem Sargent, Lt Mal Nicholas, WO1 Jim Long, WO2 Ron Newman, Sgts Les Bailey, Jack Cheater (Q), Len Davies, Percy Long, Keith Todd, Bill Miller Cpls/Sprs Charlie Beech, Bev Uwins, Peter Frodsham, Brian Berkery, Jim Maher, John Van de Graaff, George Ullinger, Joe Farrington, Tony Slattery, Kevin Moody, Tom Royle, Bob Skitch, Pat Wood, John Underwood, Sgt George ?? (RAASC), Cpls Bernie Brand (RAEME), ?? Reid (RAAMC), 2 AACC, plus ????? total 3 & 38	US ships in support: FS 216, (Skipper – Capt Mellor) FS 392. US survey contingent OC Lt Hershey. Several sappers promoted T/corporal during op.
1958 BS	AHQ Svy Regt – Topo Sqn	Charters Towers/ Tennant Creek	May - Oct 6 months	N Qld; NT. Base camps at Charters Towers,	1 st order EDM traverse – part of geodetic survey of Australia.	Capt JL (Jim) Stedman OC, Capt George Ricketts, Sgts Frank White, Norm Vaughan, Malachy Hayes, Harry Wright	Involved extensive use of Bilby towers. First major EDM traverse. Similar work carried out

				Hughenden, Richmond, Cloncurry, Camooweal		(MT) Jack Waller (Admin), Cpls Bob Skitch, Kevin Moody, John Van de Graaff, Lou Sommer; Sprs Don Grey, Mick Symmons, Dave Owens, Tom Royal, Bob Thompson, Don Cocker, Dennis Woods and others arrived later at Hughenden. Nev Parker (cook	through coastal triangulation by N Comd Fd Svy Sect.
1959 CS BS	AHQ Svy Regt – Topo Sqn	Borrooloola-Mt Hensman		NT and WA. Base camps at Borrooloola and Katherine	1 st order EDM traverse – part of geodetic survey of Australia. Included LaPlace astronomical observations for azimuth control on selected stations	Capt George Ricketts (OC) fol by Capt later Maj Jim Stedman, WO1 Ron Newman, Sgts Harry Wright (MT), Norm Vaughan, Malachy Hayes, Cpls Lou Sommer, Dave Owens, Mick Symmons, Sprs Ian Bryan, Bruce Cockburn, Don Cocker, Pat Cox, Jim Fitzhenry, Bill Hill, Noel Humphries, Bill Jeffery, Andy Millar, Blue Rogers, Tom Royle, Bob (Lofty) Thompson. La Place team – Maj Spencer Snow, Sgts Joe Farrington, Tony Slattery, John Van de Graaff	This operation incurred considerable hardship. A Naval cutter sunk and was lost with all equipment on the Roper River. Sickness said to be due to inadequate diet occurred. Vehicles used were Austin Champs with Rolls Royce engines and Humber one ton trucks. Major problems with transmissions.
1960 CS BS RJH	AHQ Svy Regt – Topo Sqn	No name	May - Oct 6 months	Qld and NT. Base camps at Camooweal for traverse and Georgetown for map control and annotation	1 st order EDM traverse (geodetic survey of Australia) from Mt Isa to Borrooloola. Airborne barometric altimetry in Camooweal area. Then 1:250,000 map control by 4 th order astro, airborne barometric altimetry and air photo annotation from Georgetown. La Place astro obs continuing. Laplace Astro carried out as separate operation from Camooweal working north to Borrooloola and east to	Maj Jim Stedman OC, Capt Clem Sargent, WO1s Des Moore, Ron Newman; Sgts Len Davies, Norm Vaughan, Joe Farrington (Laplace), Tony Slattery, John Van de Graaff (Laplace), Harry Wright (MT), Jack Waller (QM) Cpls Lou Sommer, Bob Skitch (later Sgt), Sprs Don Cocker, Ian Bryan, Leo Bub, Bruce Cockburn, Pat Cox, Jim Fitzhenry, Bill Hills, Noel Humphreys, Dennis Woods, Richard Jackson-Hope, Bill Jeffery, Andy Millar, Dave Owen, Blue Rogers, Tom Royle,	Bilby towers used on coastal section of EDM traverse east and south of Borrooloola. Landrovers used for first time and Studebaker 6x6 trucks replacing GMCs. 'Leap-frog' barometer heighting Croydon to Esmeralda closing on State BM at Croydon.

					Richmond.	Bob (Lofty) Thompson, Peter Strandly, Mick Symmons, plus others ?	
1961 CS	AHQ Svy Regt – Topo Sqn	No name	May – Sept 5 months	Base camps at Coen and JackyJacky airfield	1 st order EDM traverse; La Place astro obs, map control, aerial heighting and annotation	Cpts Clem Sargent, Tommy Tomlinson (RE), Lt Abarro (Philippines Army), WO1 Ron Newman, WO2 Len Davies, SSgt Jack Waller (Admin), Sgts Joe Farrington*, John Van de Graaff*, Harry Wright (MT), Cpls Allan Pollard (Q), Peter Bates-Brownsword, Mick Symmons, Ian Bryan, Col Clarke (cook), Bill Jeffrey, Sprs Bruce Cockburn, Neil Griggs, Bill Hill, Andy Millar, Dave O'Hara, Darryl Parker, Peter Sadler, Don Sweeney, Blue Warwick, Bryan Rogers. * Laplace team	
1962 CS	AHQ Svy Regt – Topo Sqn			Queensland	1 st order EDM traverse Mt Tozer-Weipa	Capt Tommy Tomlinson (RE) and others	
1962 <i>RJH</i>	AHQ Svy Regt – Topo Sqn	No name		TPNG	1st order EDM traverse north coast NG Island connections in Torres Strait	Sprs Richard Jackson-Hope, Keith Broadbent,	Part of det went by LSM to Brisbane ran into severe storm. Vehs had to be replaced in Brisbane dur to damage.. Remainder of detachment went by RAAF from Laverton – Tville – Moresby. RW air support by Helicopter Utilities. 10 man rat packs. RTA by LSM
1962 <i>RJH</i>	AHQ Svy Regt – Topo Sqn	No name	2 weeks early 1962	Central Victoria	2 nd order tellurometer traverse	Sgt Ian Bryant, Cpl Bruce Cockburn, Spr Brian Rogers	Stayed in hotel
1962 <i>RJH</i>	AHQ Svy Regt – Topo Sqn	No name		TPNG, Torres Strait, Gulf of Carpenteria	2 nd order Tellurometer traverse, Papua east coast and islands off Port	Sprs Keith Broadbent, Richard (Jacko) Jackson-Hope, Bruce Cockburn, Mal Grant.	First surveyors to be lifted by helicopter from Murray Barracks to The

					<p>Moresby.</p> <p>Photo idents within Madang area</p> <p>Survey of corduroy road along coast using air photography.</p> <p>HIRAN survey (US Navy & Airforce)</p> <p>2nd order Tellurometer traverse on several islands in the Torres Strait.</p>	<p>Cpls Tom Royle, Mick Symmons, Ian Bryan, Bill Hills, Andy Miller, Sprs Richard Jackson-Hope, Stan Campbell, Pat Cox, Andrew Warwick,, Bill Jefferies and others</p>	<p>Bluff. Helicopter firm – Helicopter Utilities.</p> <p>Attached to RAN . Transport supplied by Navy.</p>
1962 <i>EUA</i>	AHQ Survey Regt			Victoria - Bendigo	Development of analytical aerotriangulation system	Capt/Maj Ed Anderson	
1963 <i>RJH</i>	AHQ Svy Regt – Topo Sqn	No name		TPNG, Torres Strait, Gulf of Carpenteria	HIRAN survey		USAF
1963 <i>RJH</i>	AHQ Svy Regt – Topo Sqn	No name		TPNG	EDM Traverse; Aerodist; Laplace Astro	Sgt Andy Miller; Sprs R Jackson-Hope, Bruce Cockburn	R J-Hope solo light keeping. Unsvc radio sets. Bruce Cockburn evac with snake bite
1964 <i>EUA</i> <i>RJH</i>	Det AHQ Svy Regt – Topo Sqn	No Name	6 months	P&NG	<p>Survey of Lakekiomu River Papua south East of Kerema By native Canoe from Kukipi to Urulau. Tellurometer traversing.</p> <p>HIRAN survey US Geodetic Survey Manus Island</p>	<p>OC Maj Ed Anderson, Sgt Bill Hills, Cpl Tom Royle, Spr Richard Jackson-Hope</p> <p>Maj Jim Stedman, Spr R Jackson Hope, US geodetic surveyors</p>	LSM in support, as floating base penetrated 400 miles up Sepik River

					EDM Traverse 2 nd order Pependetta to Alotau		
1965 NS EUA JL	Det AHQ Svy Regt – Topo Sqn	No name	6 months – Jul-Nov	TPNG Main base Mt Hagen, Fwd bases Ambunti, Lake Kopiago, Telefomin	1:100,000 mapping of NG highlands and Fly River delta. Hor con by aerodist. Ver con by airborne barometric altimetry	OC Maj Ed Anderson, 2IC Maj Peter Whitstone RE, Lts John Cattell, McNeil QM, WO1 John Harrison, WO2s Ron Newman, Len Davies, Robert Jones, Harry Wright, Sgts Don Cocker, Daryl Hocking, Bill Harvey, Gordon Ullinger, Brian Rogers, Geoff Haynes, Cpls Wally Mooney, Wayne Gillies, Andrew Warwick, Graeme Beasley, Bob Bartlett, Theo Mulder, Don Taylor, Sprs John Black, Bill Van Malenstein, John Leworthy, Dexter Camps, Ian Donaldson, Mick Soltis, Jeff Savy, Alex Cairney, Gordon Santo, John Waight, Chris Dahlberg, Bob Turnbull, Dave Wicker, Steve Wood, Zippy Wales, Dick Small, Grant Small, Lindsay Saunders, Tony Burston, Andy Covington, Sig Peter Donaldson Signals Corps Helicopter Utilities pilot – John Arthurson Other Unsure about these people being there - Jim Bowden, Jock Kay, Jim Otte, ,	
1966 NS	Det AHQ Svy Regt – Topo Sqn	No name		TPNG – Manus Island	Establishment of SECOR site on Manus Island.	Capt Noel Sproles, Sgt Pat Strunks	Cooperative project with US Army who owned and manned the SECOR equip – Maybe the first use of GPS

							involving RA Svy. Equipment comprised three containers, huge antenna, manned by a team of military and civilians.
1966 NS EUA	AHQ Svy Regt – Topo Sqn	No name	6 months	TPNG – Main base on Horn Island. Forward bases in TPNG in Fly River Delta, and in Sepik Valley at Green River, Imonda, and Nuku	1:100,000 mapping of TPNG. Hor con by Aerodist survey in band to East of Irian Jaya (Indonesia) border	OC Maj Ed Anderson Cpts Malachy Hayes, Noel Sproles, Jerzy (George) Gruszka, Mr Hamish Grieve (civilian RW pilot), Cpl von Mulder, WO2 Harry Wright (MT)	Jerzy Gruszka was known universally in the army as 'George'. 'Jerzy' was his Polish given name. Horn Island (airstrip for Thursday Island community).
1966 NS	AHQ Svy Regt – Topo Sqn	No name		TPNG-based at Wewak	Monitoring of aerial photography by ADASTRA in NW New Guinea	Sgt Ross McMillan (long term and tedious task), Capt Noel Sproles (to a much lesser extent)	
1967							
1968							
1973							
1969 NS	AHQ Svy Regt Spec Projects Sect, loc Canberra	Beach Surveys	19 May – 27 Sep	Base: Manus Isld TPNG (HMAS Lombrum) Aitape-Sepik R Prev Year – Wutong-Aitape Fol Year – S Coast TPNG	Conduct Beach recce and landing surveys along coast of TPNG	<i>RA Svy:</i> Lt CW Watson (OIC); Cpl R (Bob) Cooper <i>RAN:</i> LTCDR Terry Jones Lieut Clive Carlyn	Supported by Attack Class Patrol Boat HMAS Madang, Prev and subsequent projects done by Capt Jim Bounds & Cpl Jock Kay
1970 NS	ditto	Beach Surveys	30 Apr – 15 Aug	Base: Manus Isld TPNG (HMAS Lombrum) Sepik R -	ditto	<i>RA Svy:</i> Capt Charlie Watson Cpl Chris Dahlberg <i>RAN:</i> Lieuts Ken Heynatz, Syd Brown	Supported by Attack Class Patrol Boat HMAS Madang, Next fd trip by 2LT Ian Shepherd, Cpl Alan Dean
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