

DAFTAR PUSTAKA

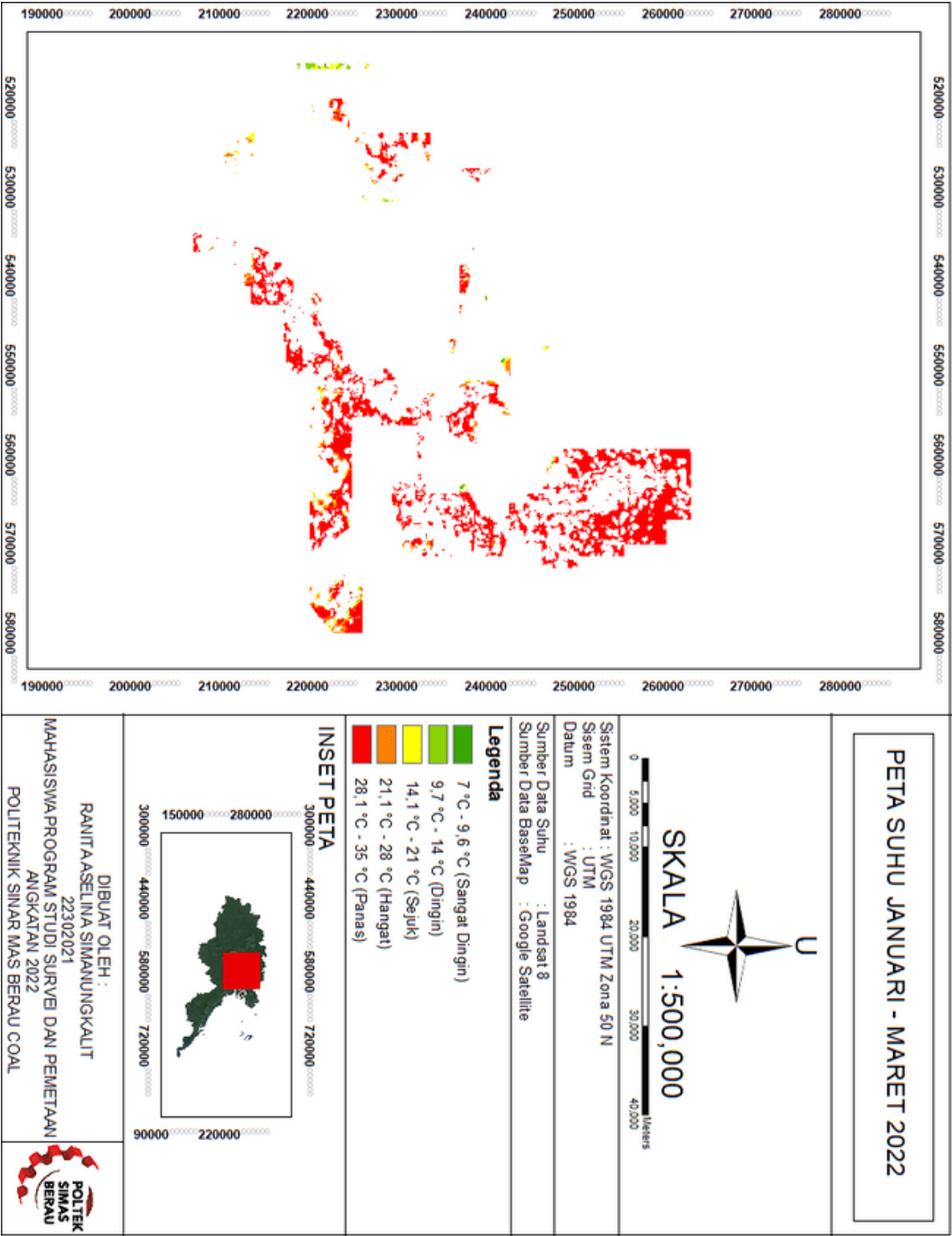
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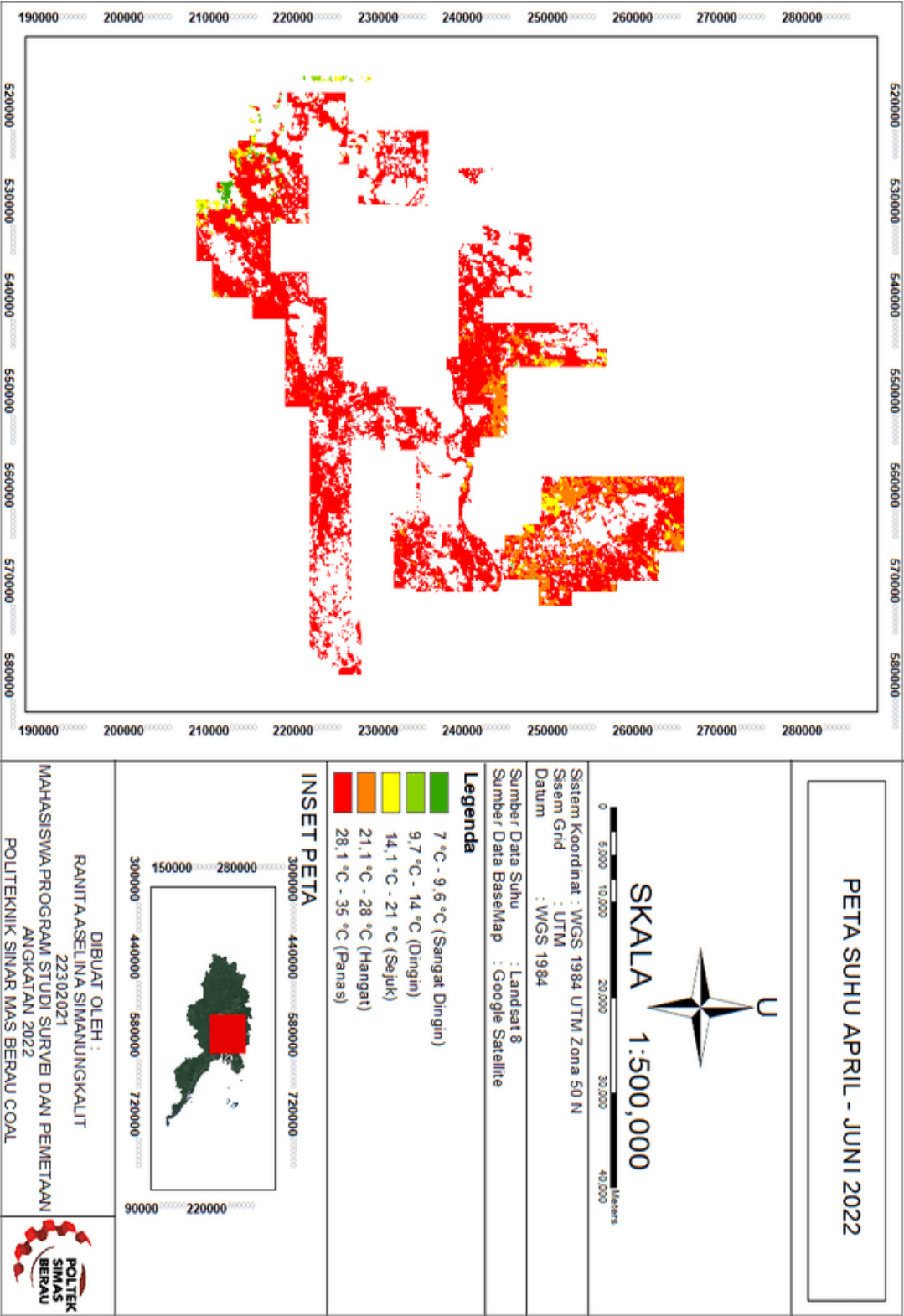
POLITEKNIK SINAR MAS
BERAU COAL

LAMPIRAN

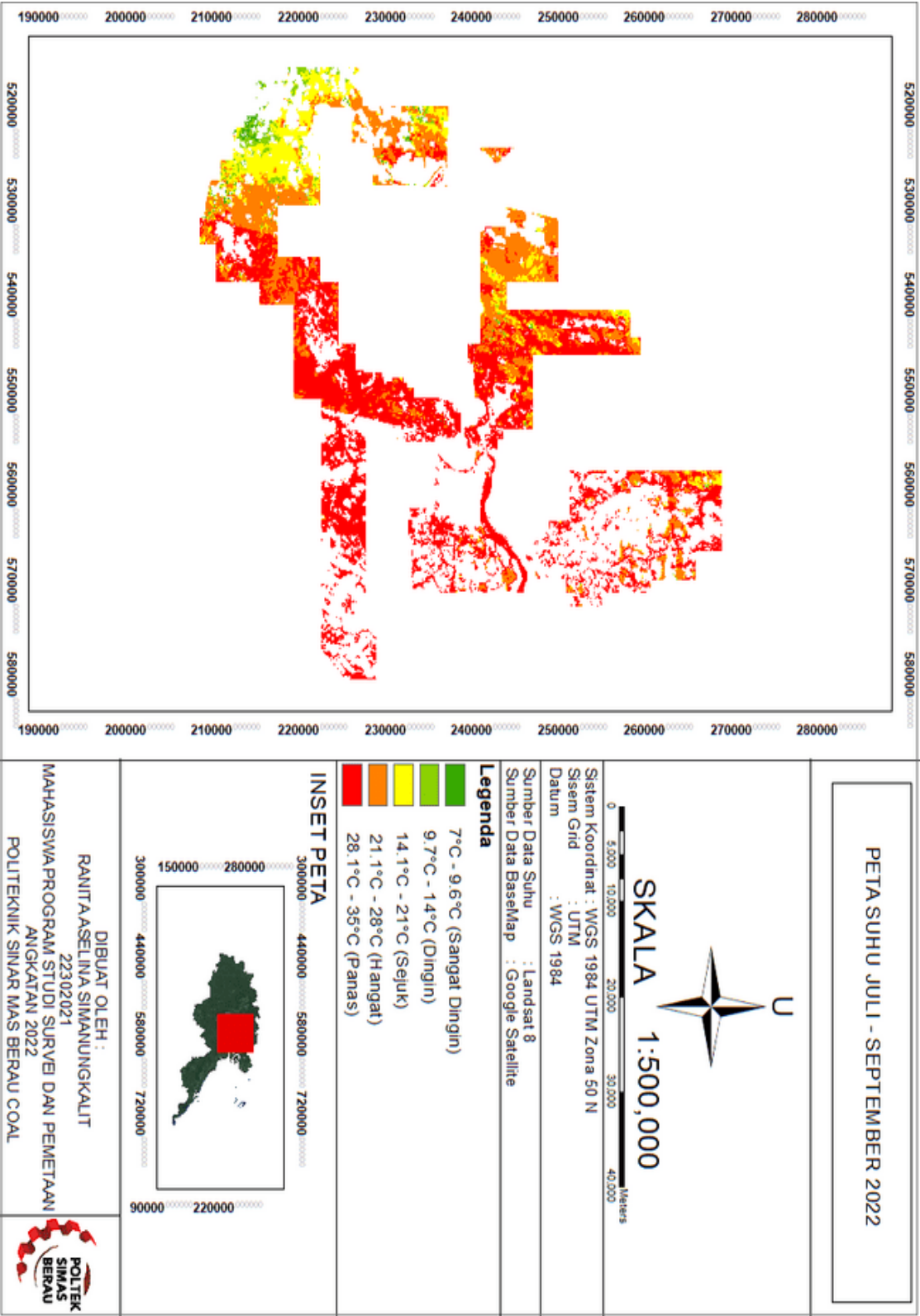
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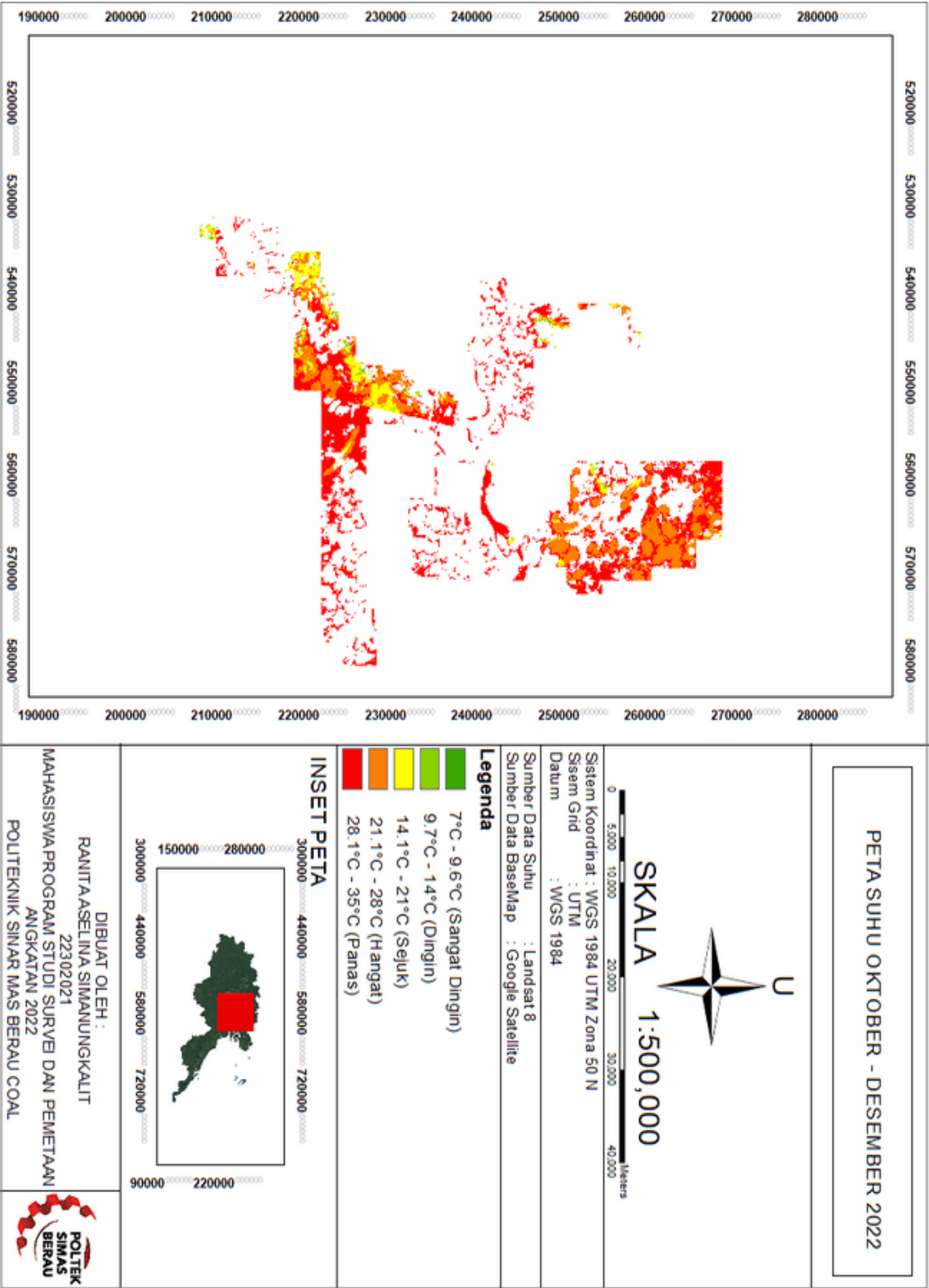
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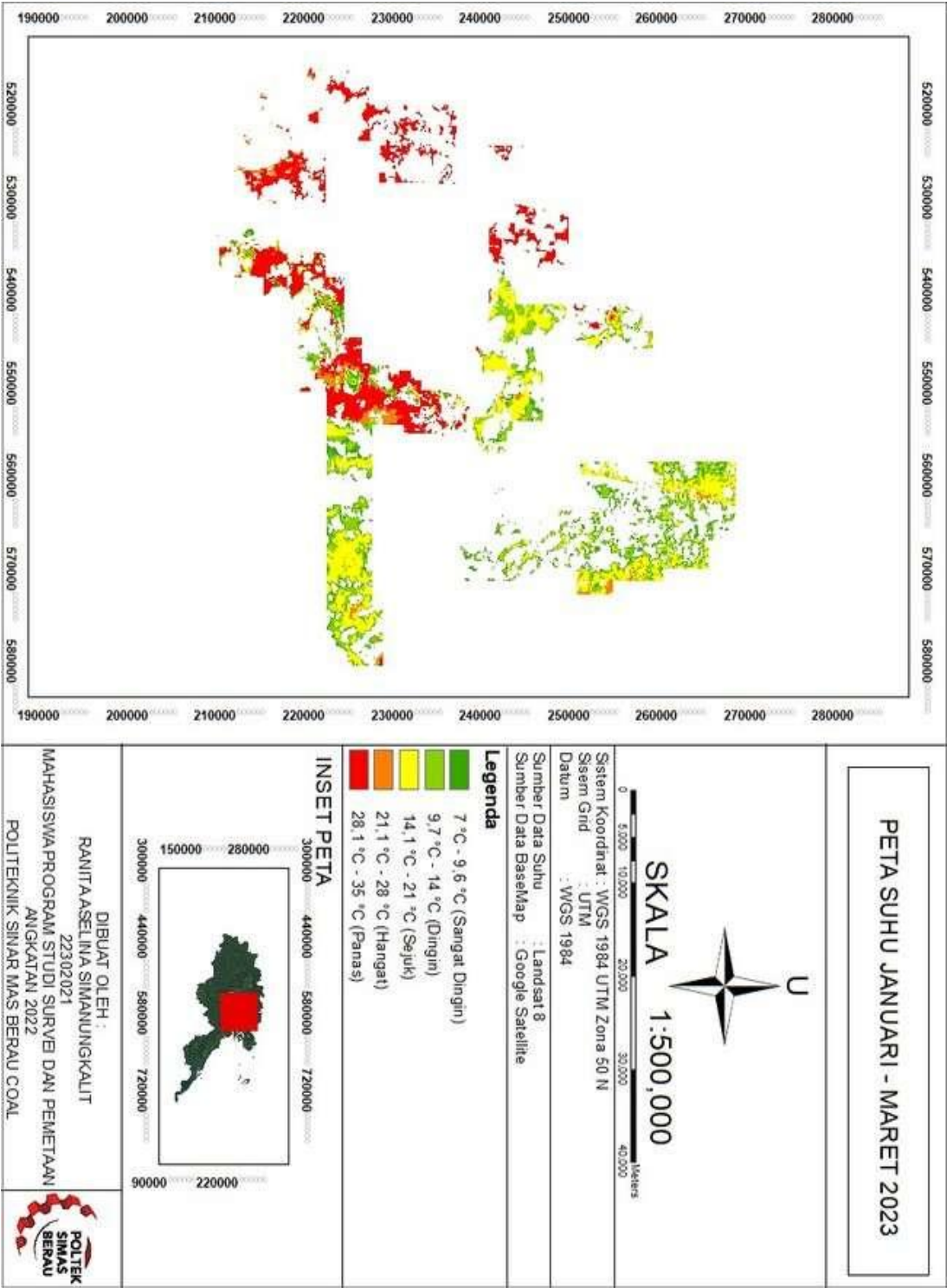
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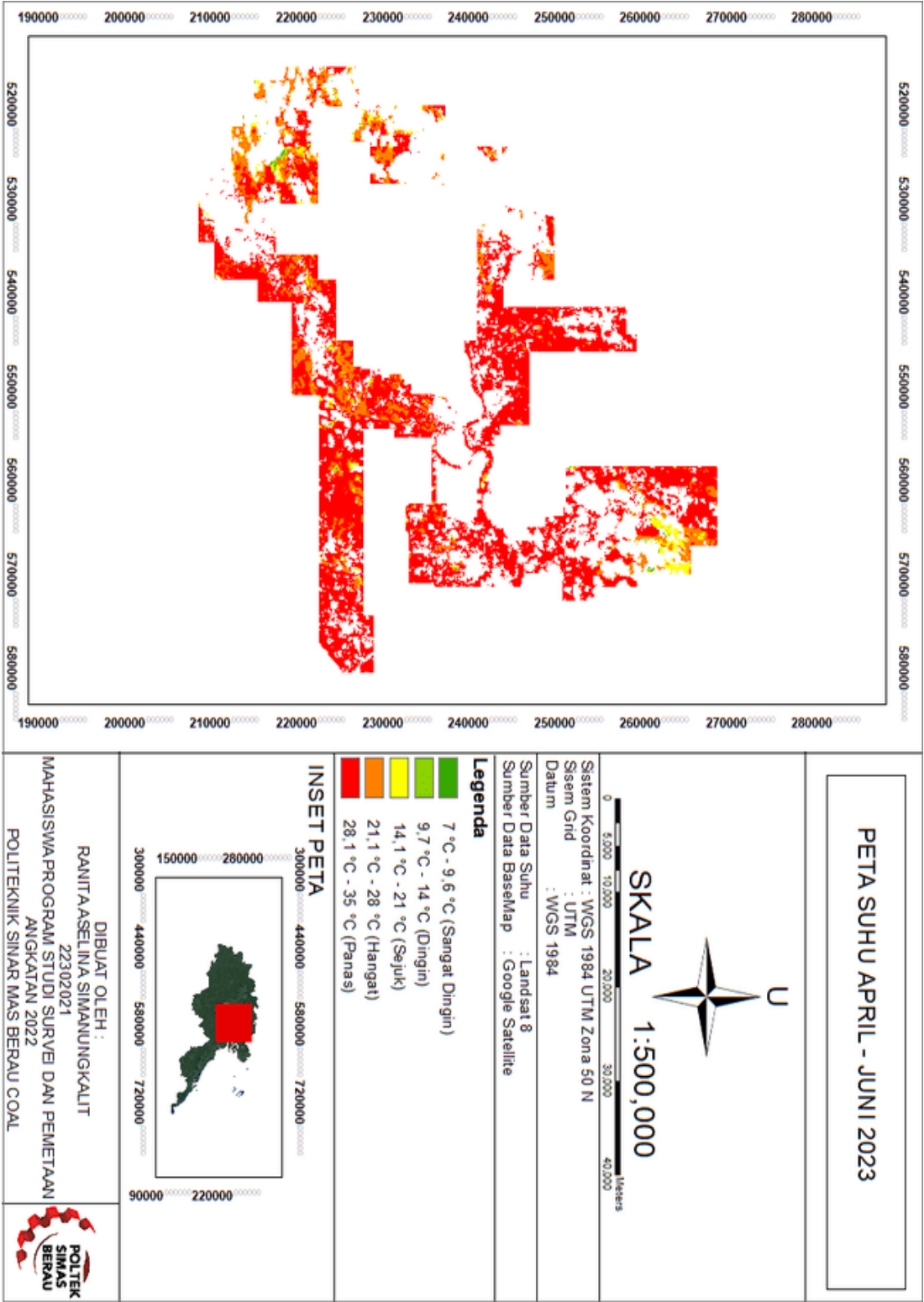
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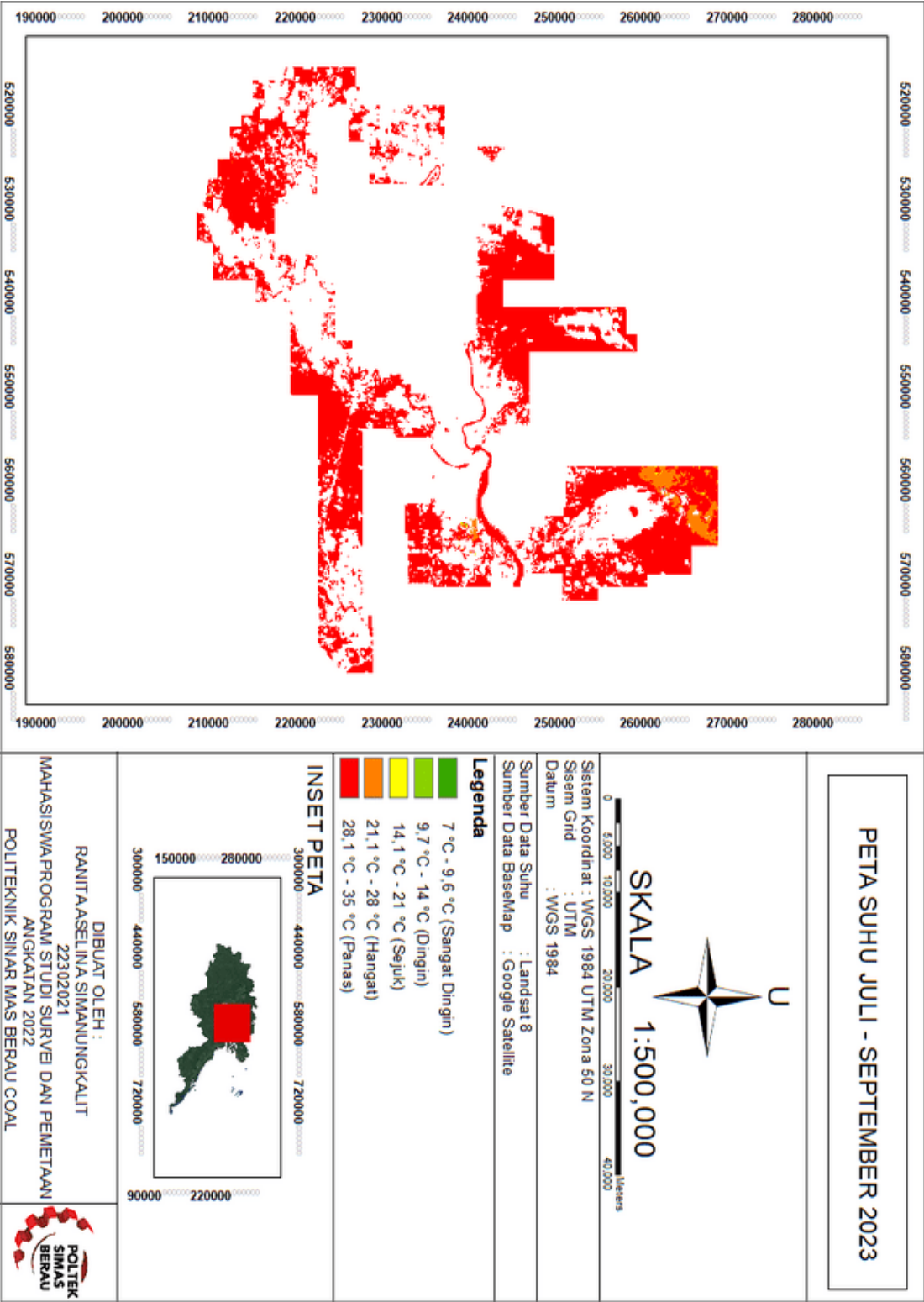
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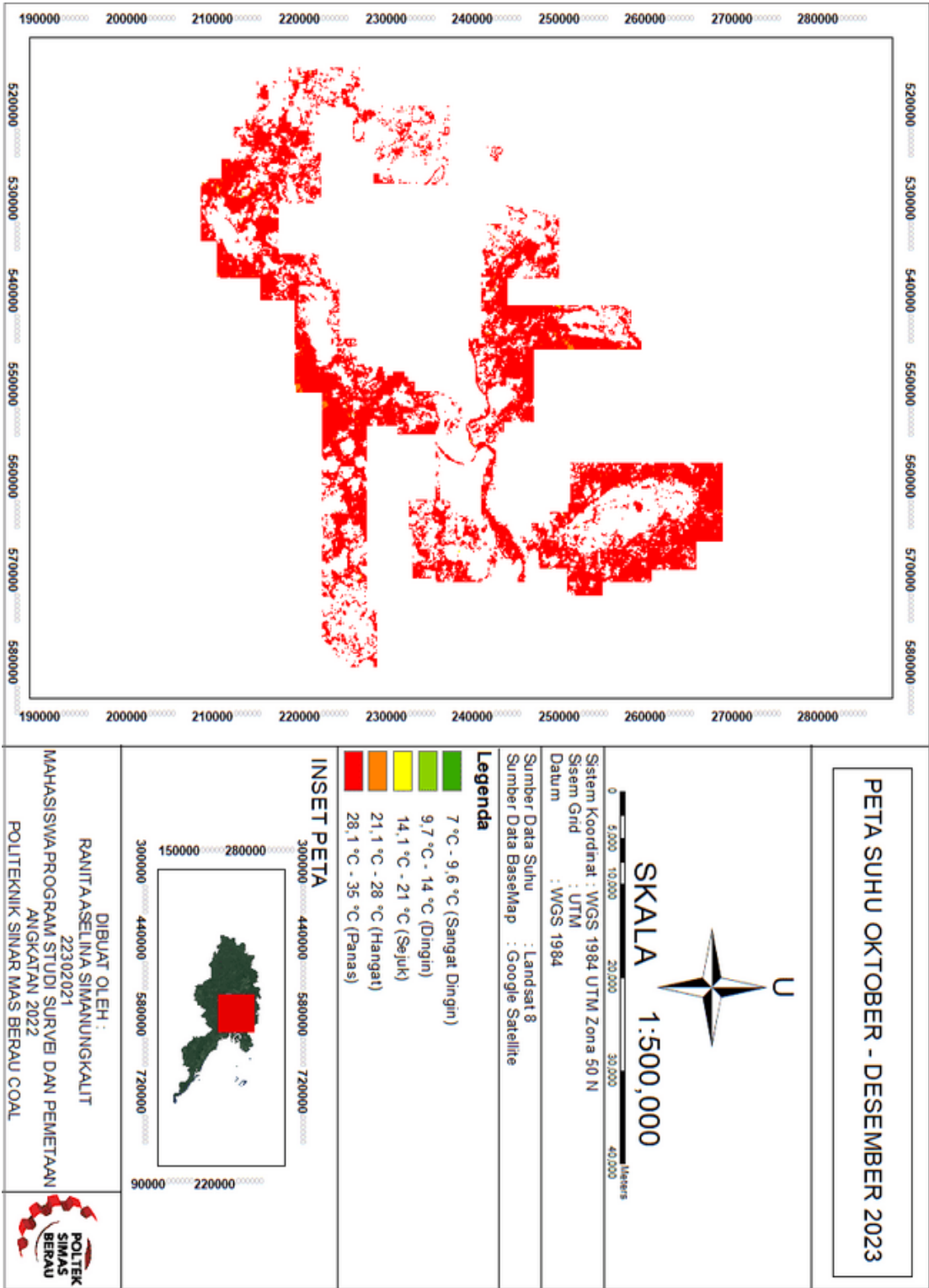
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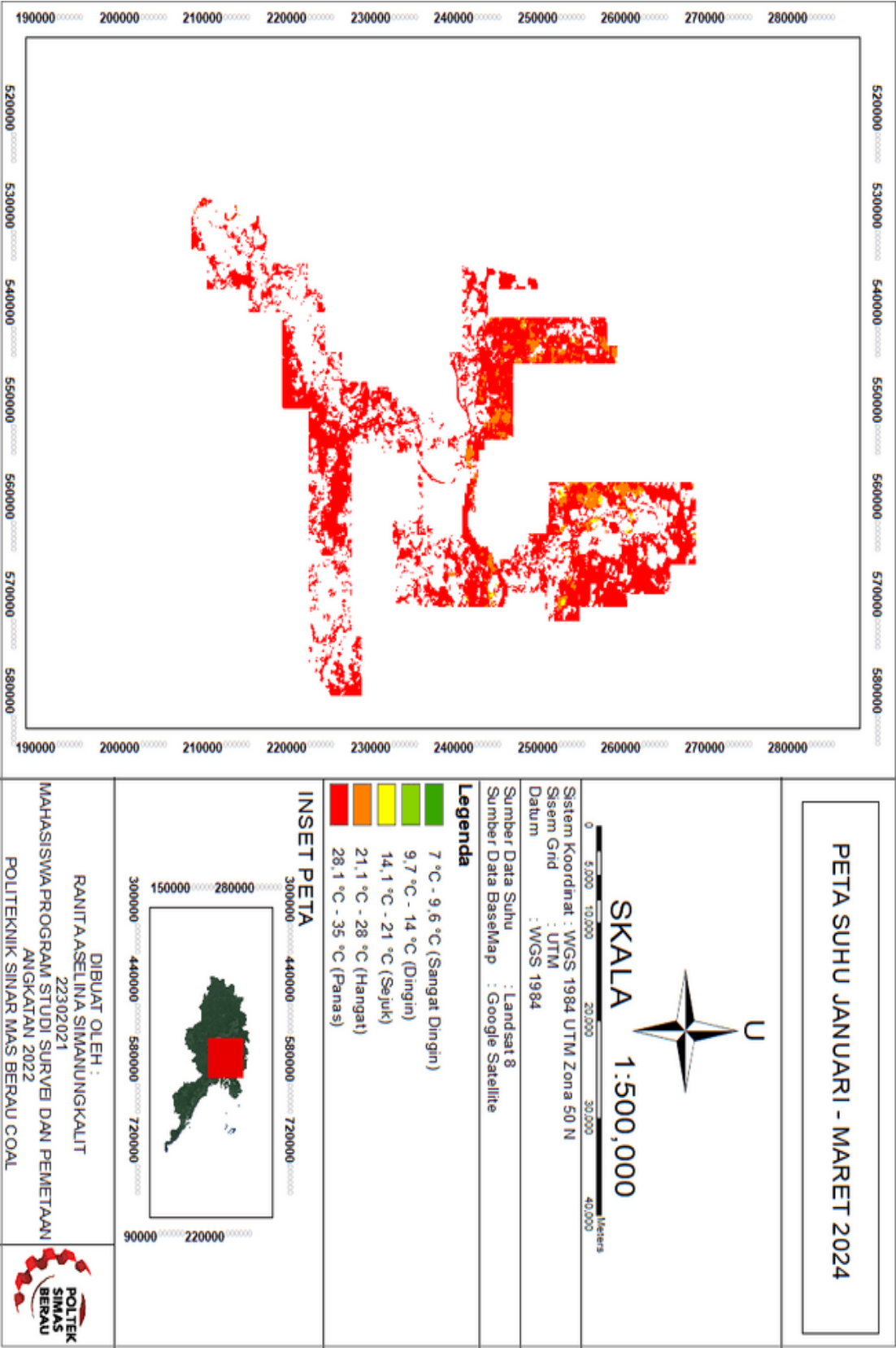
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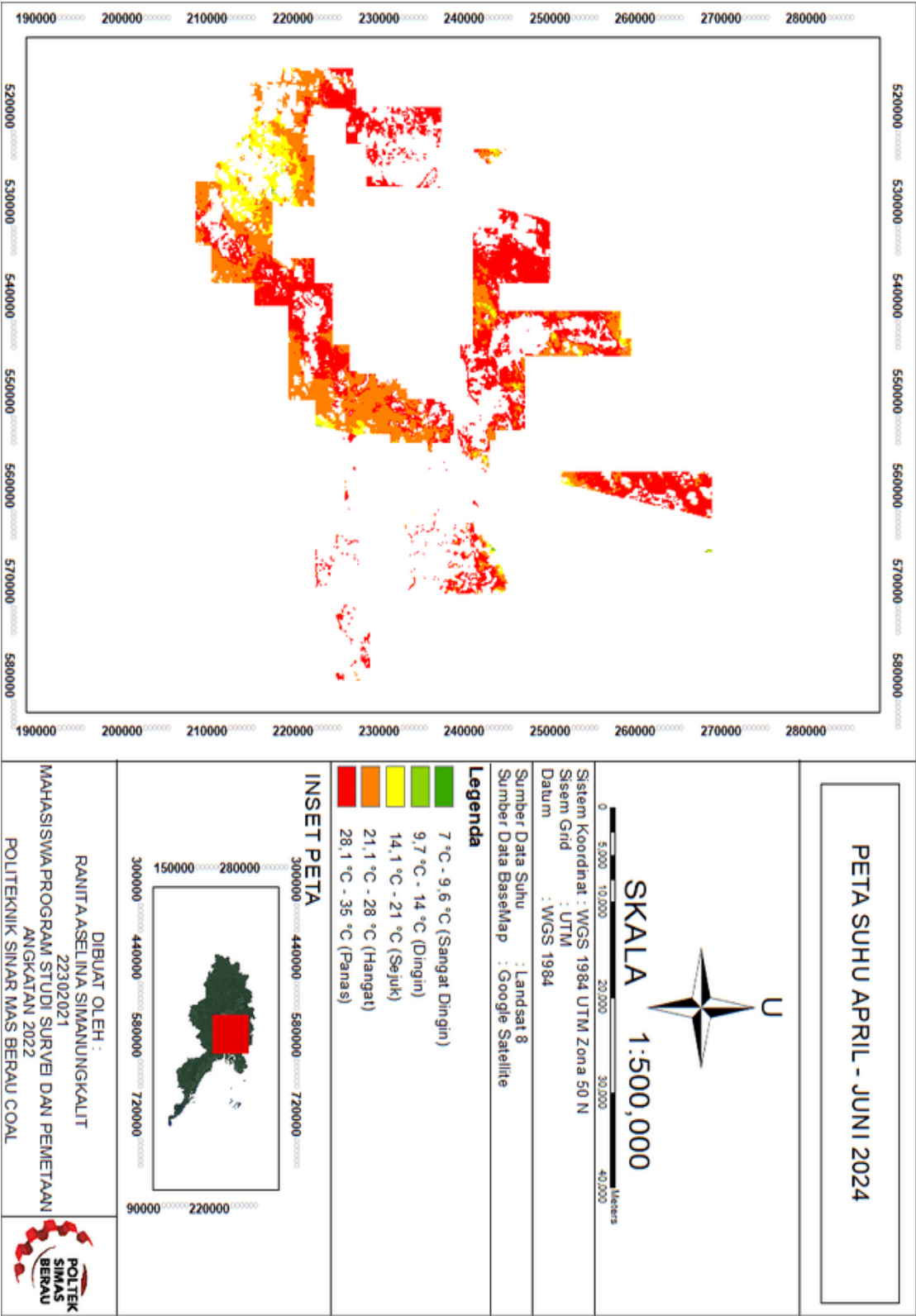
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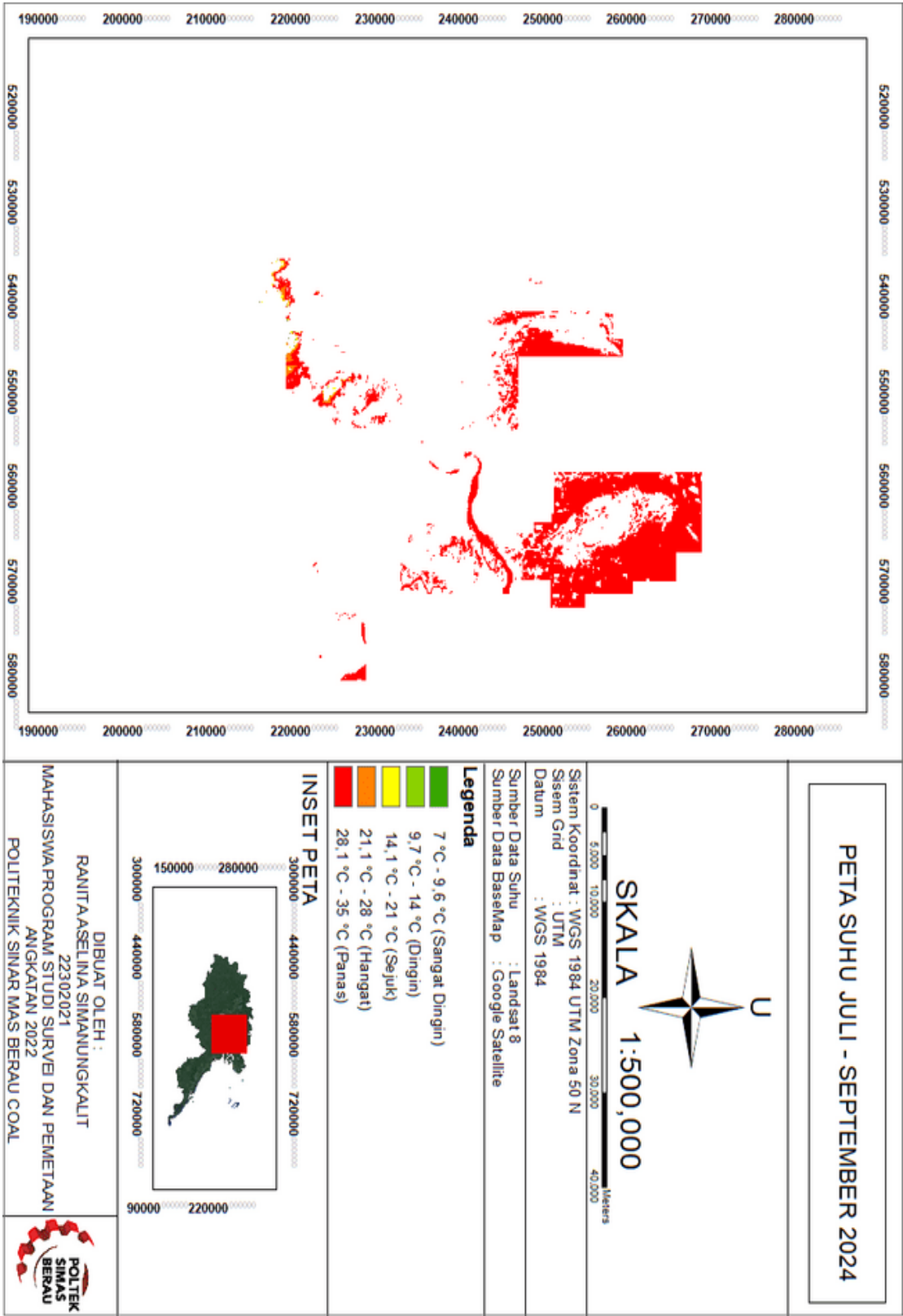
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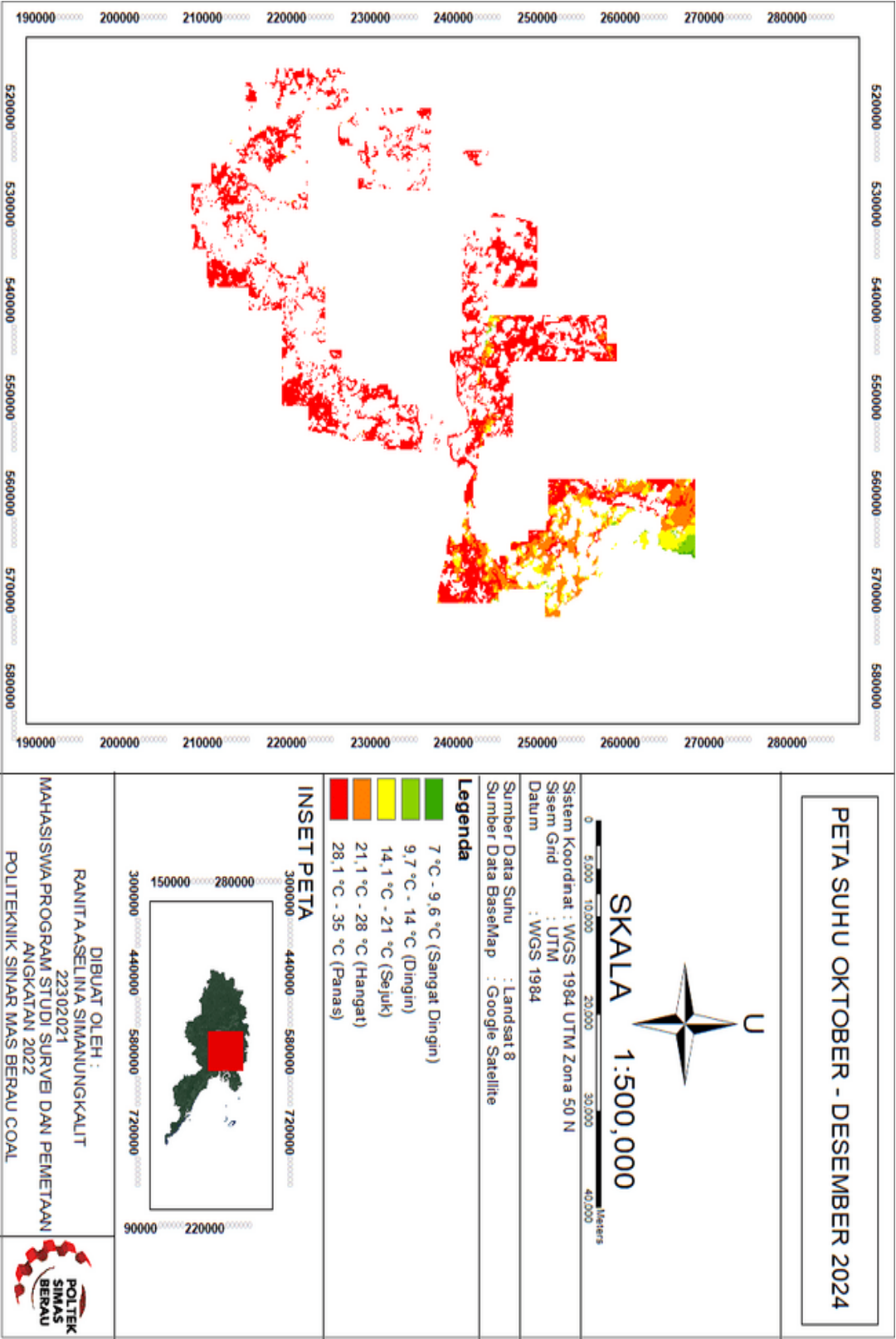
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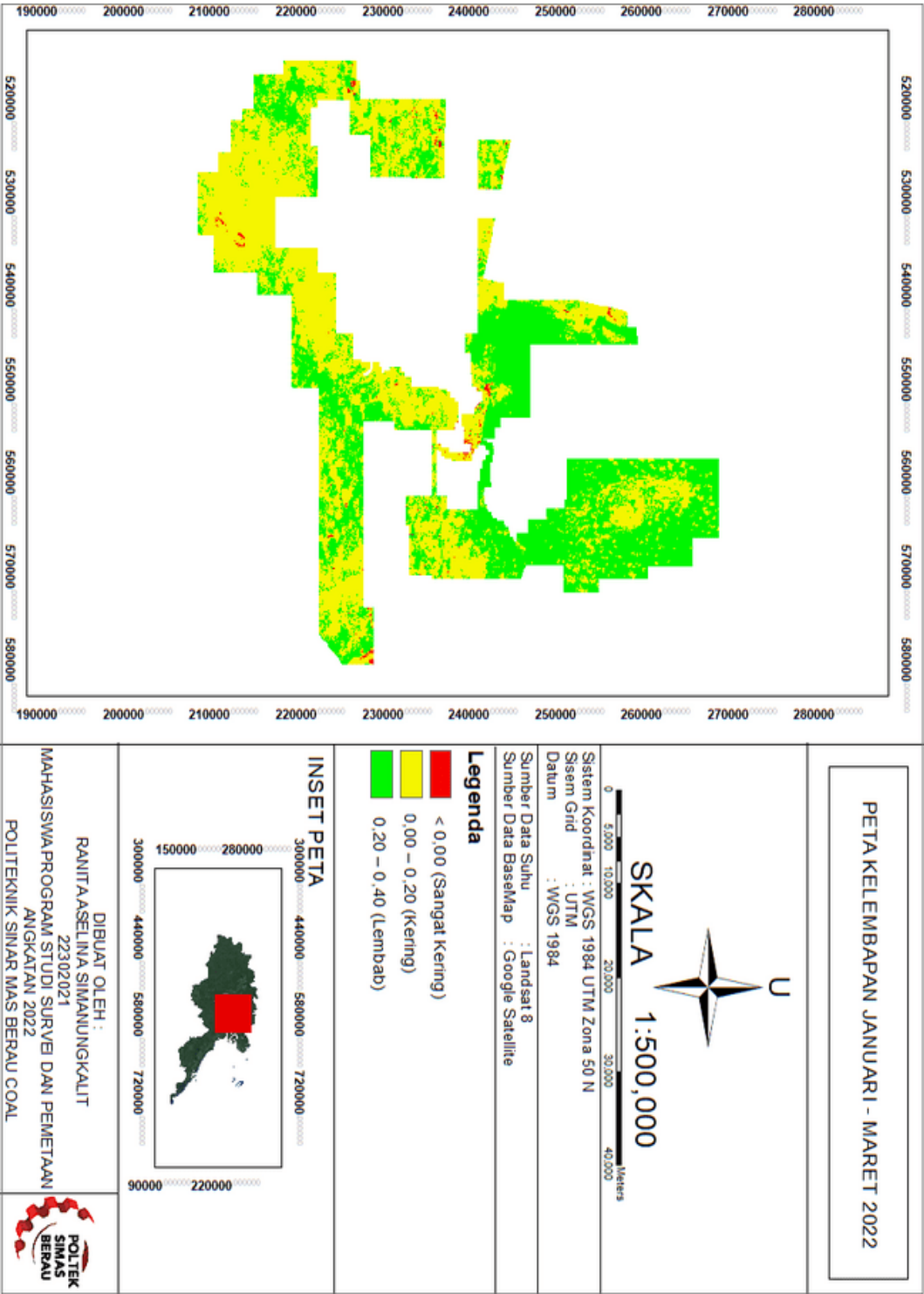


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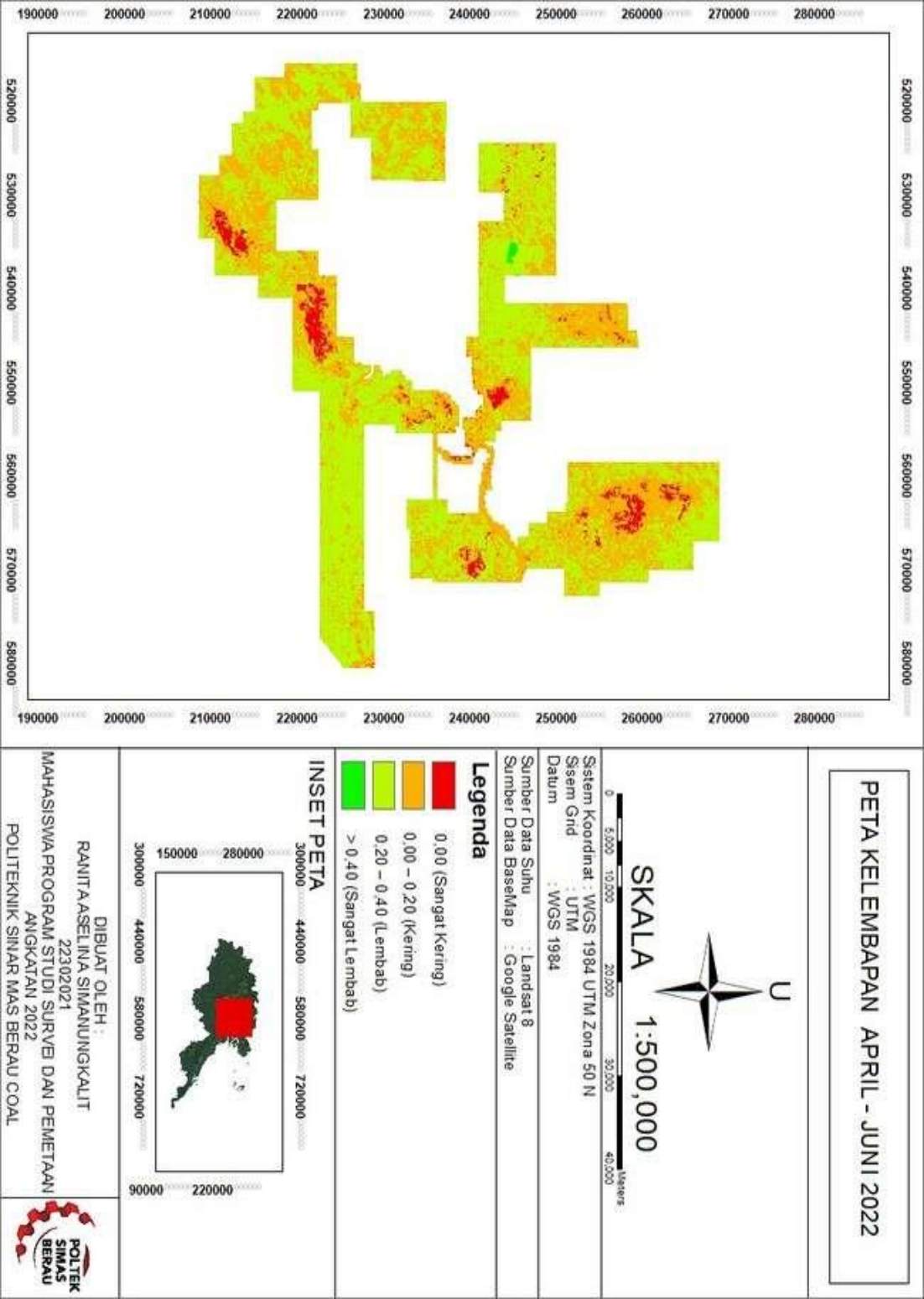


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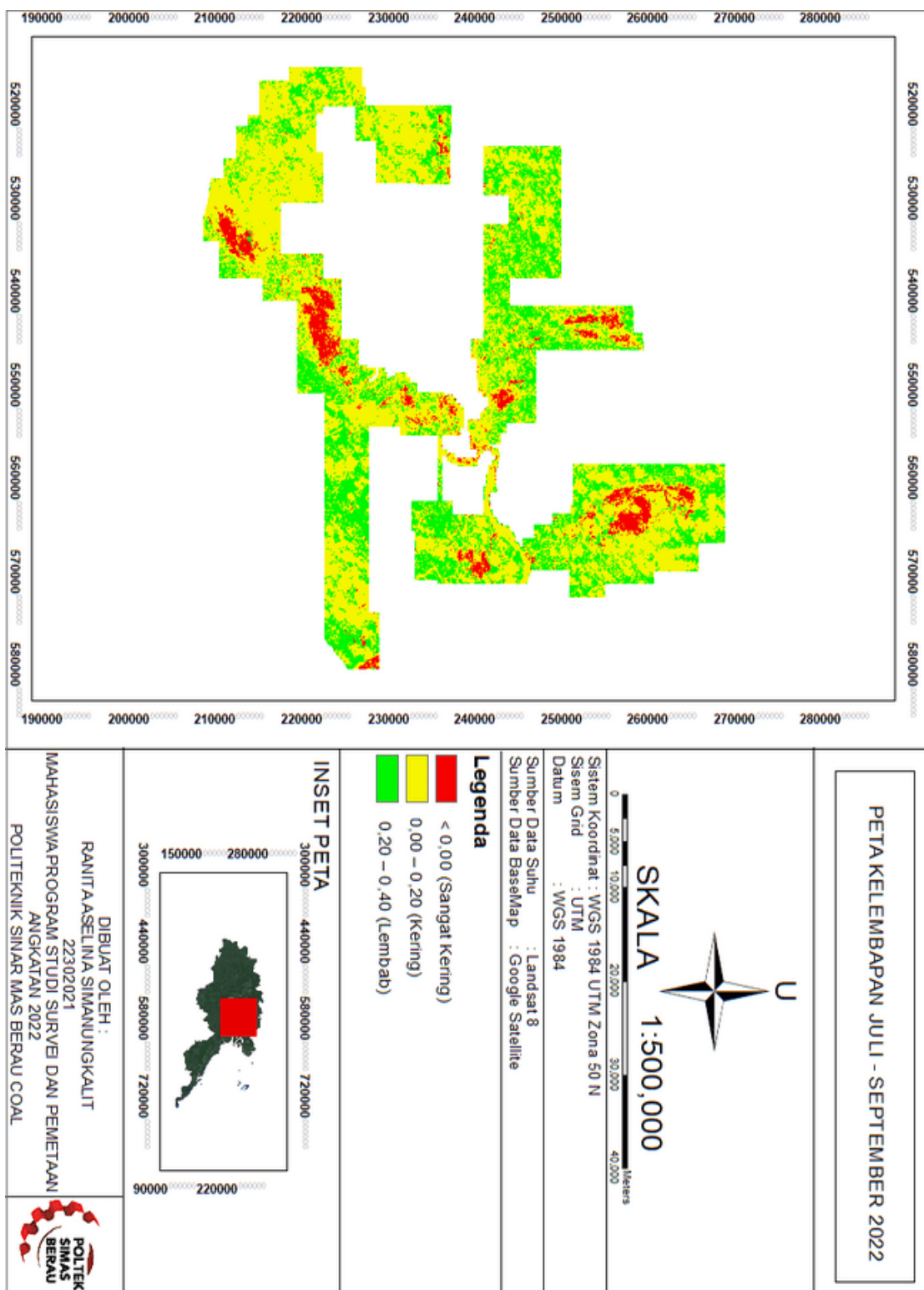
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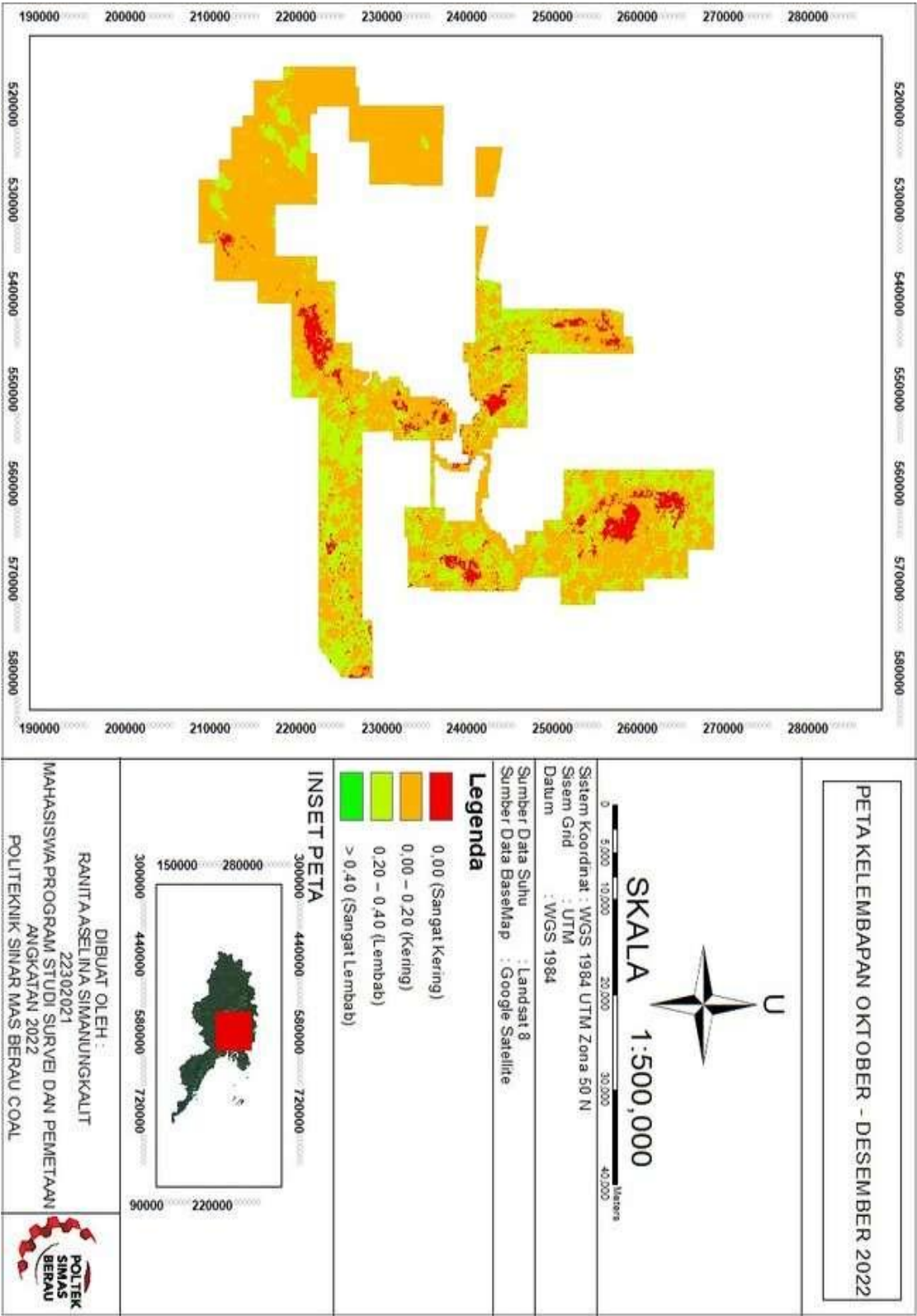
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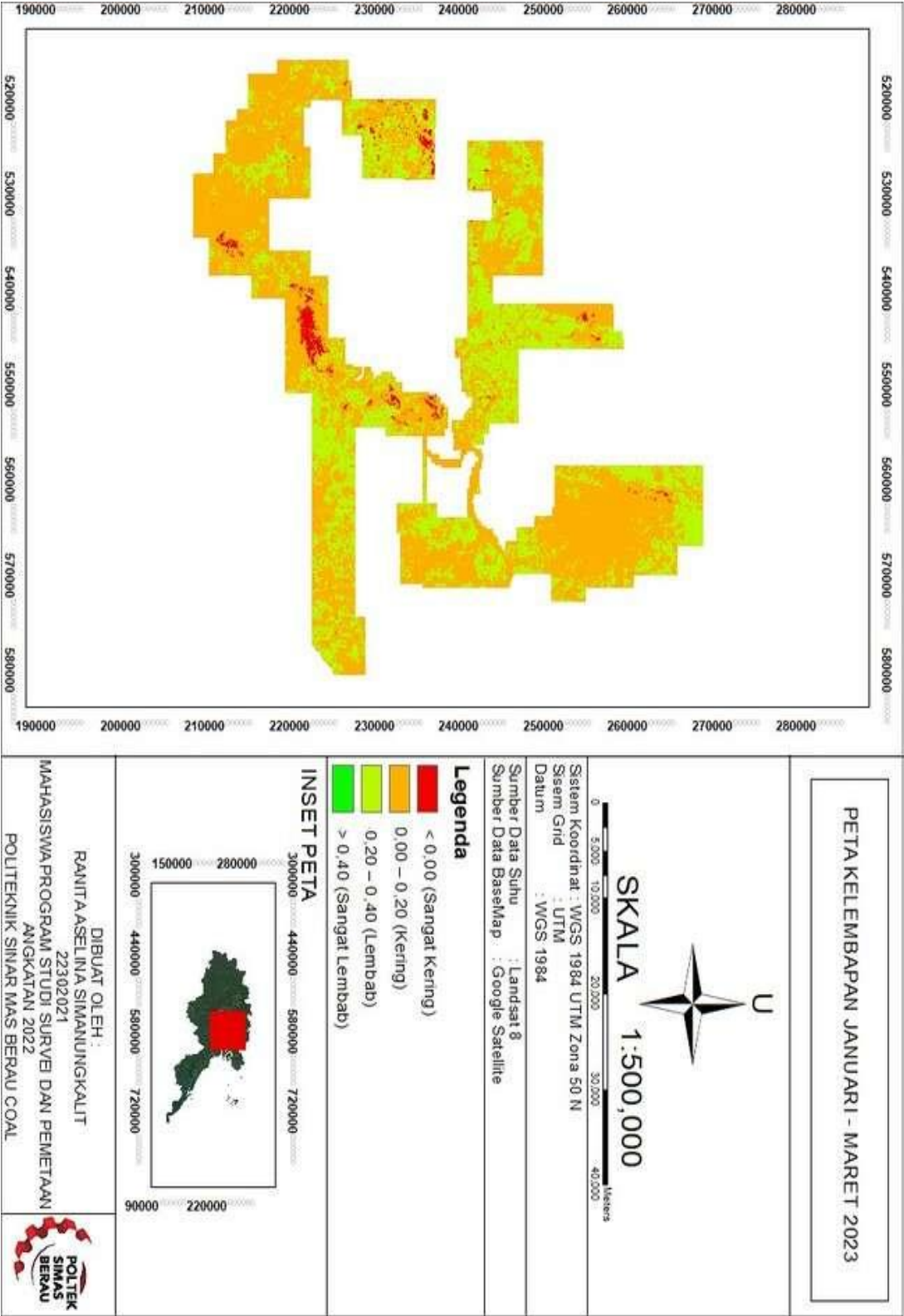
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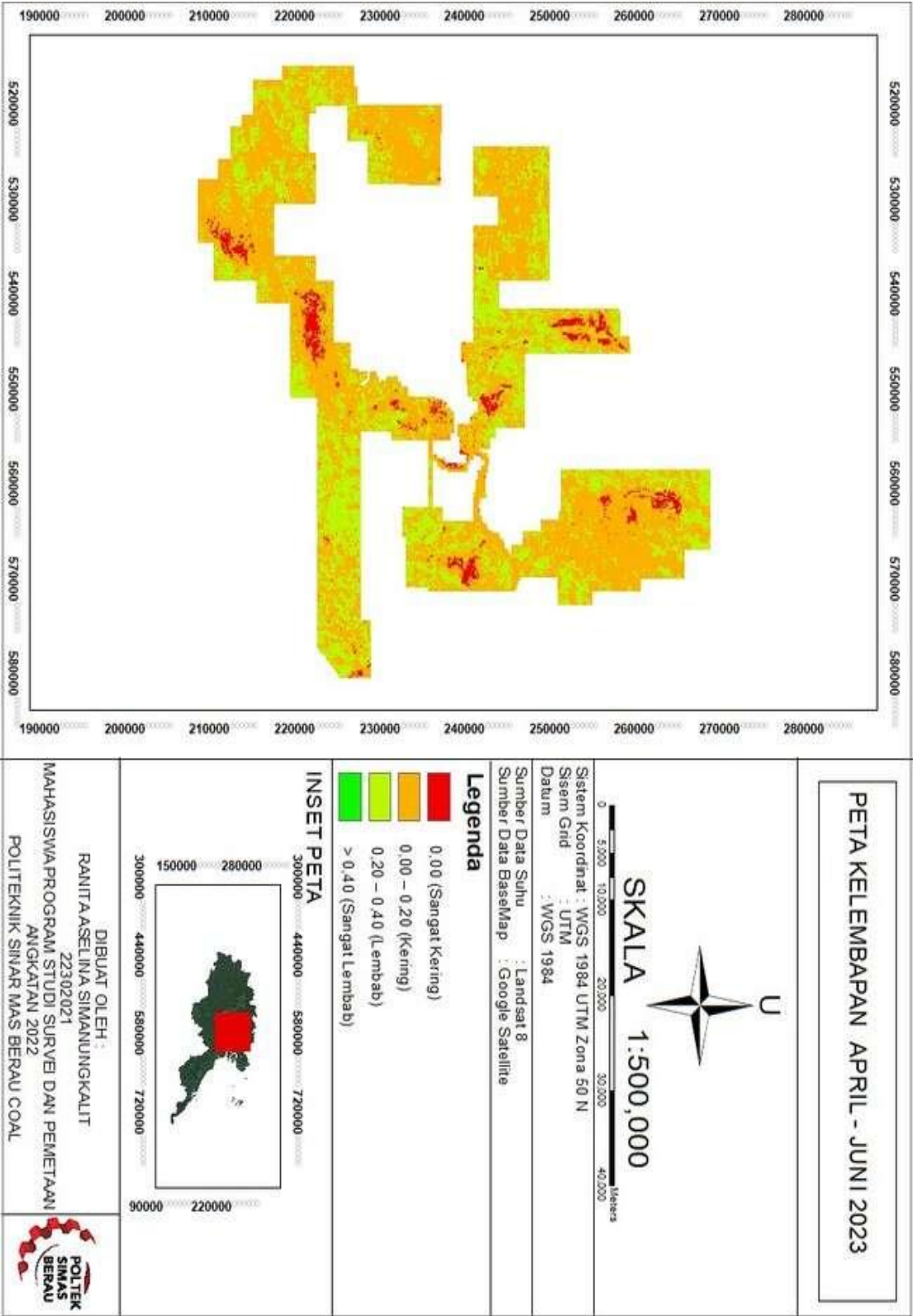
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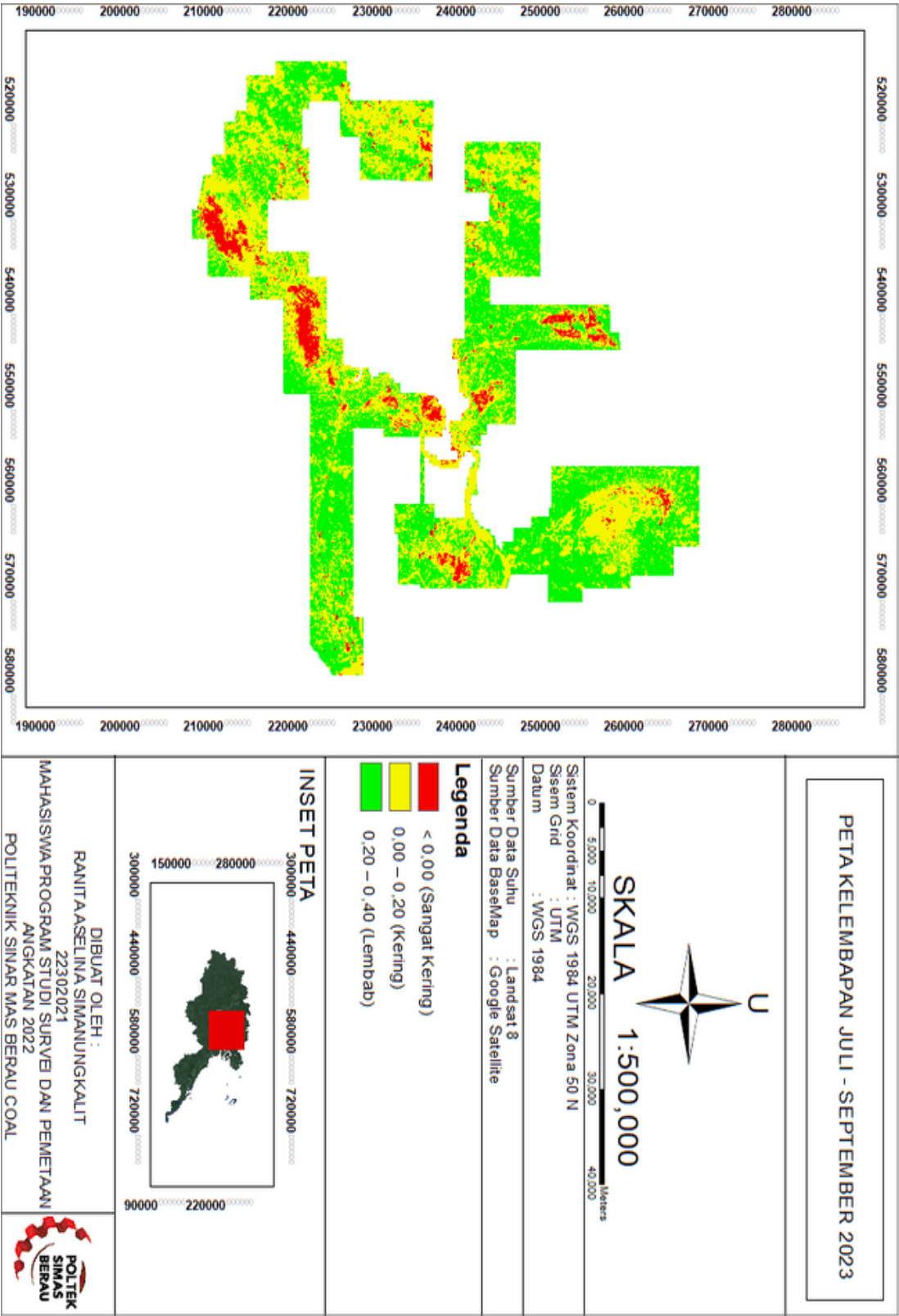
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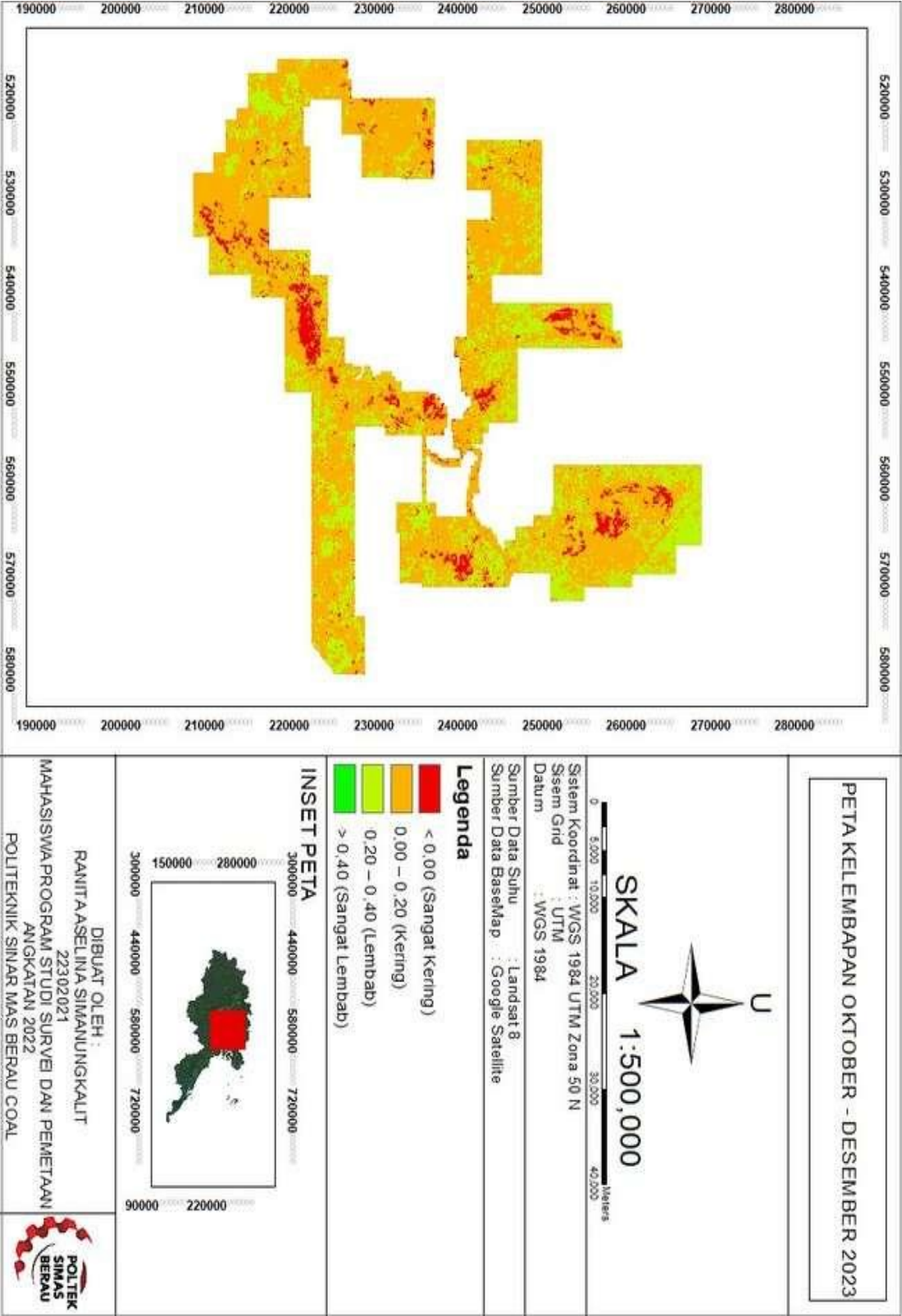
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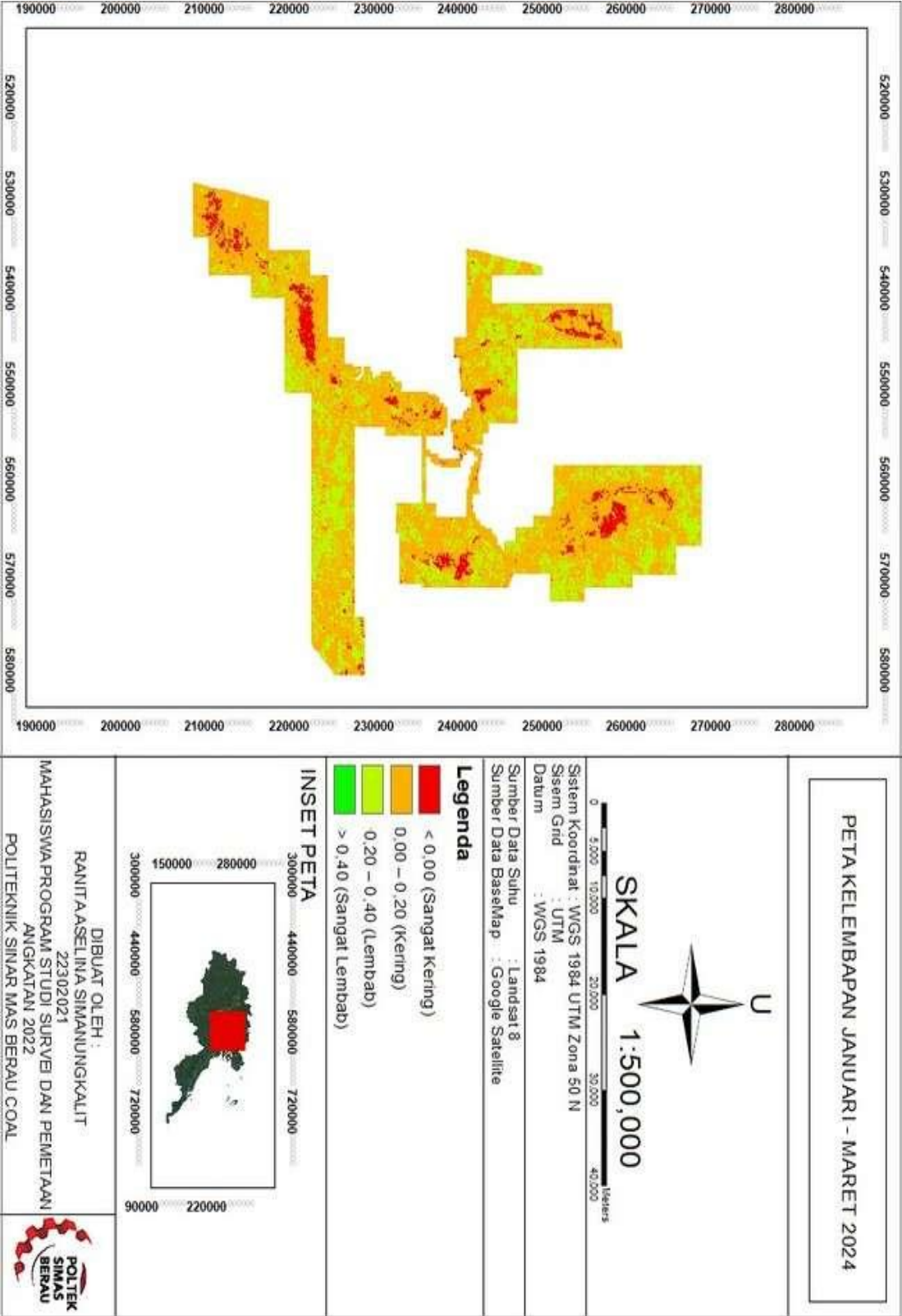
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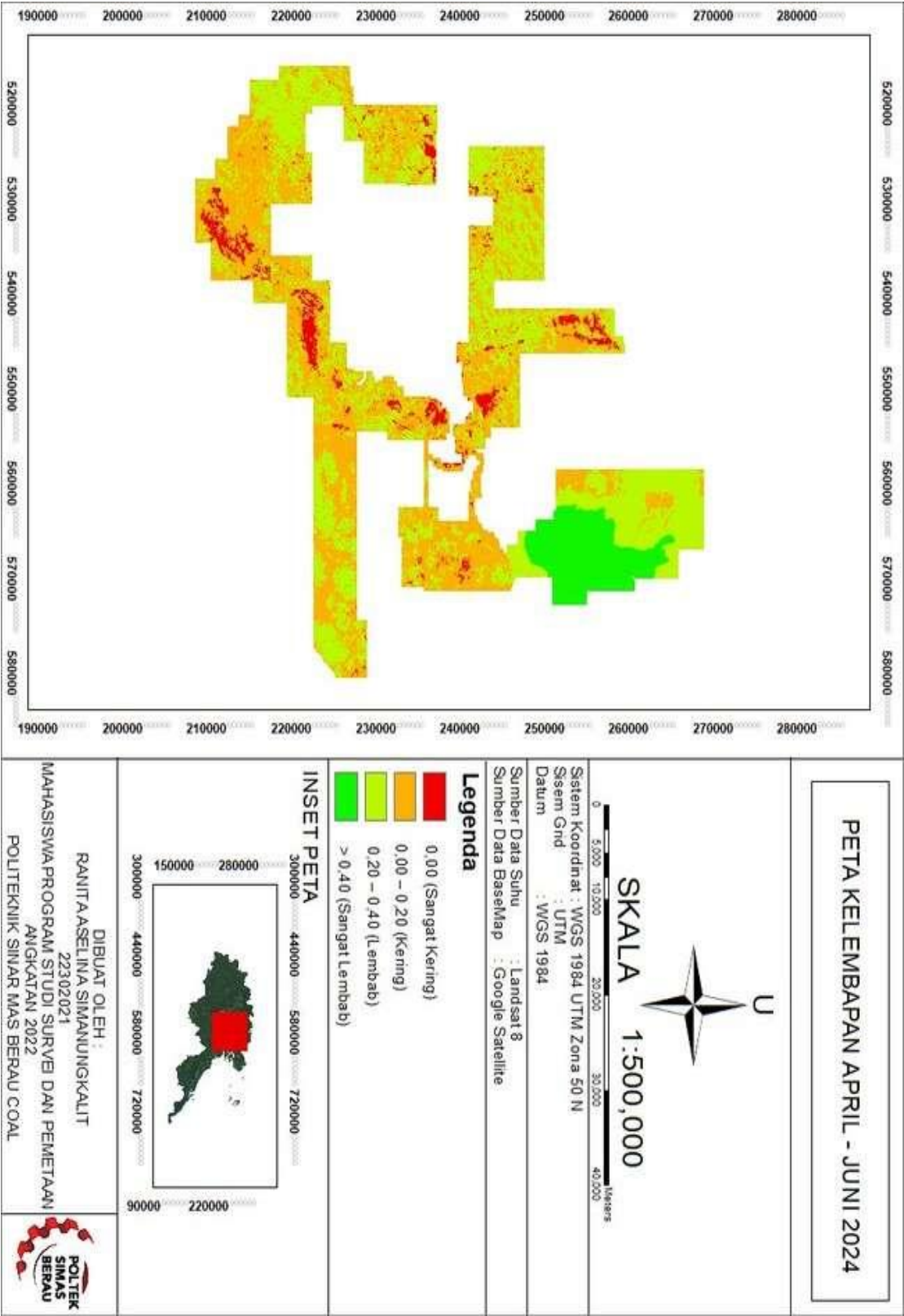
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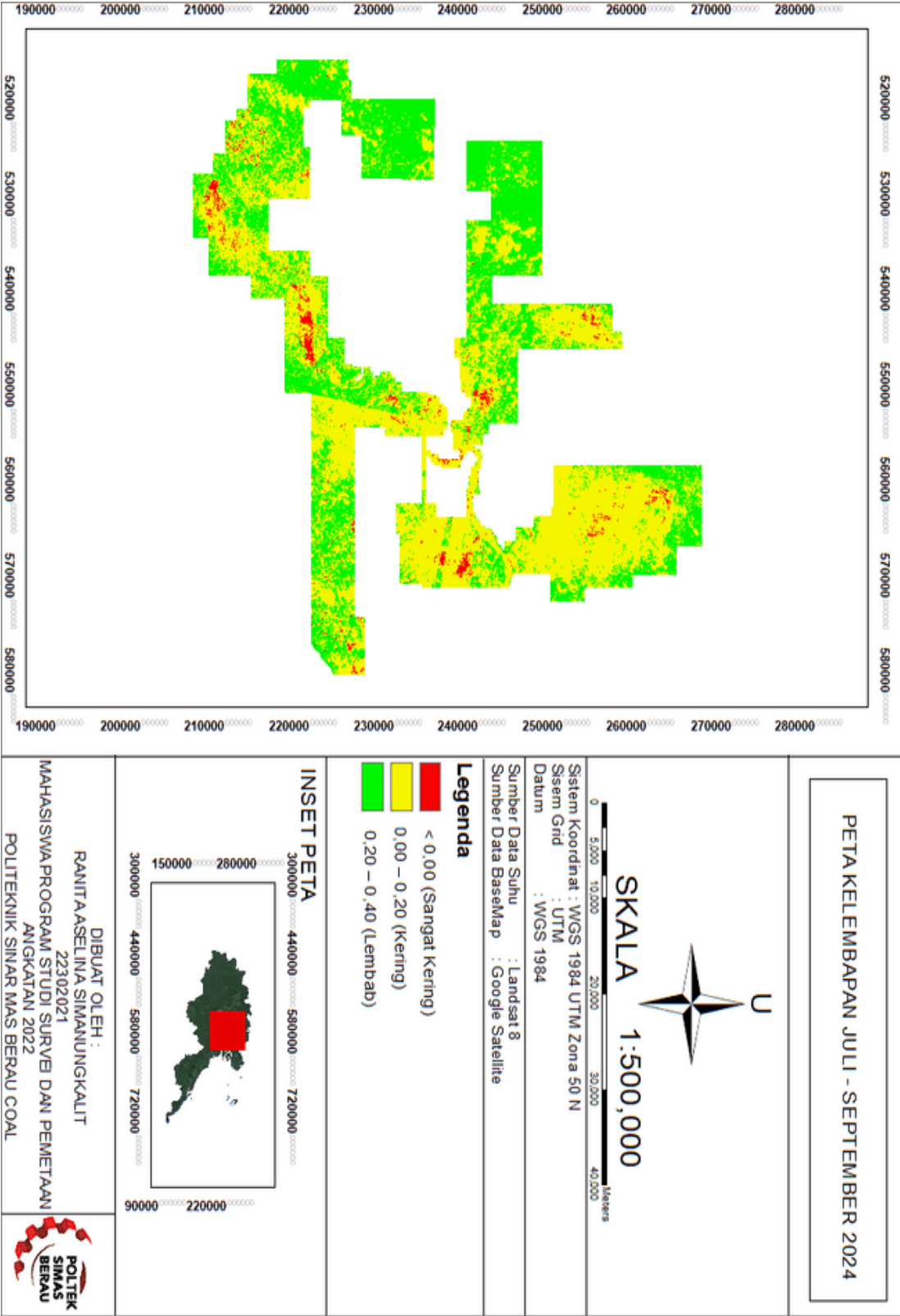
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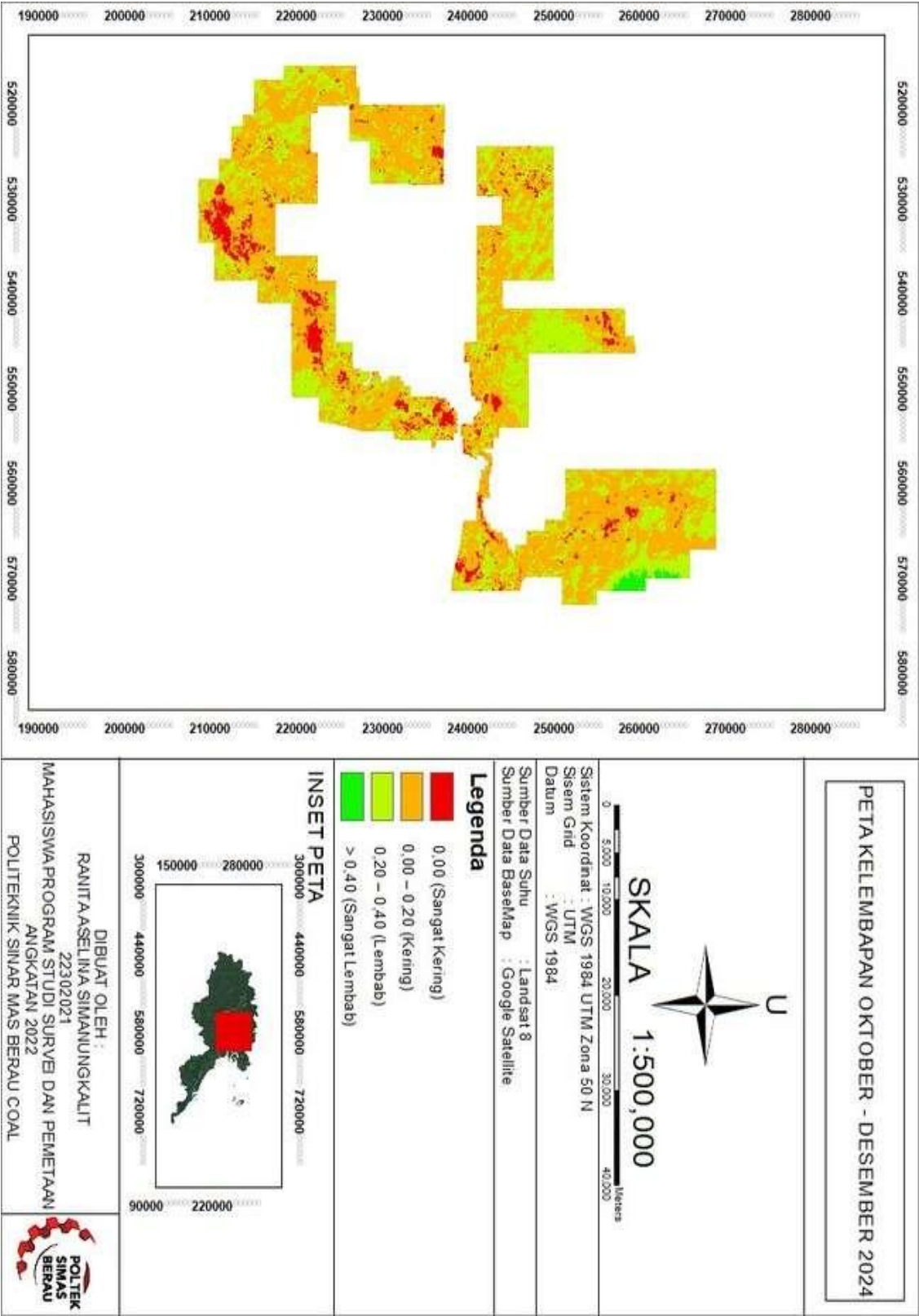
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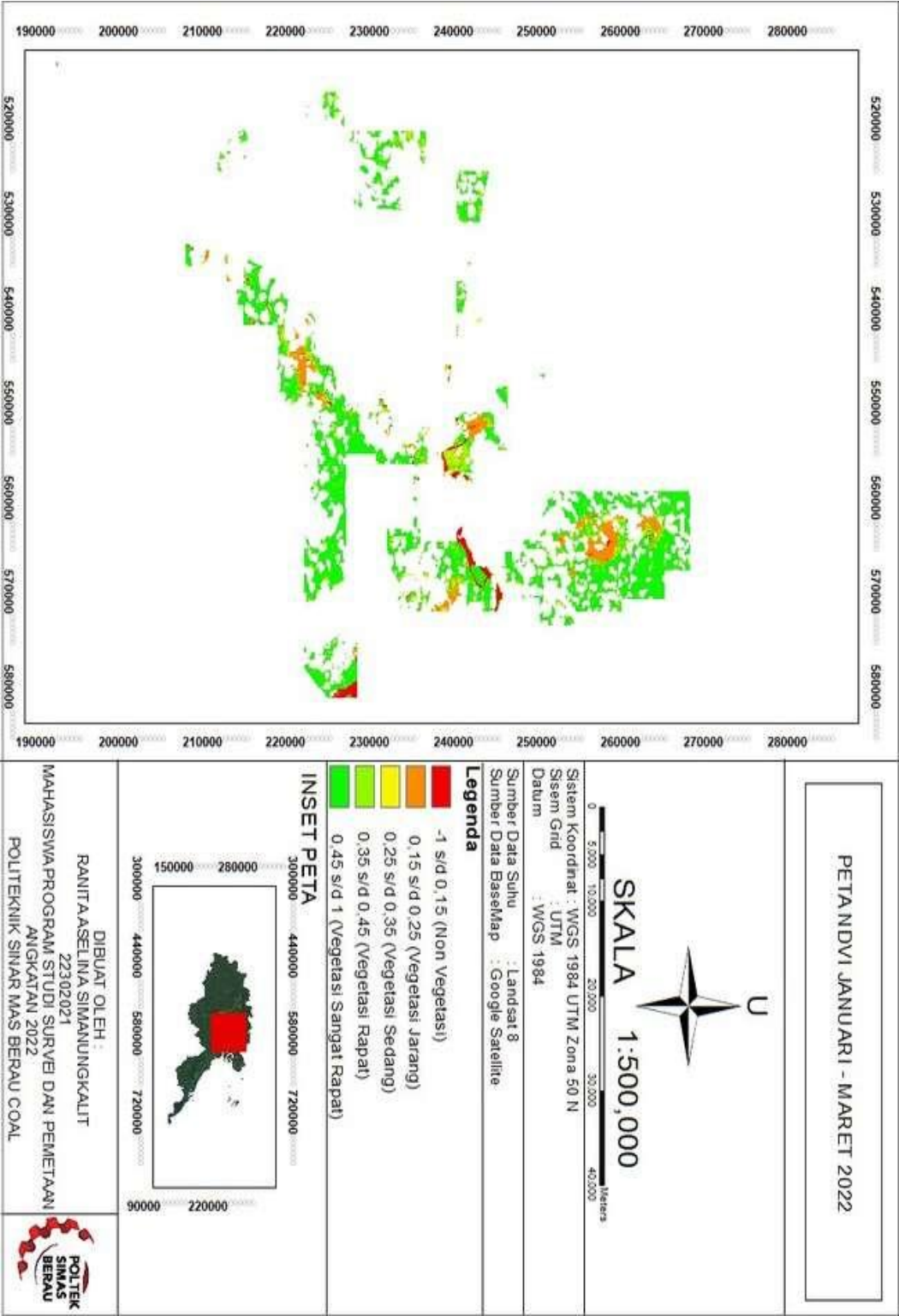


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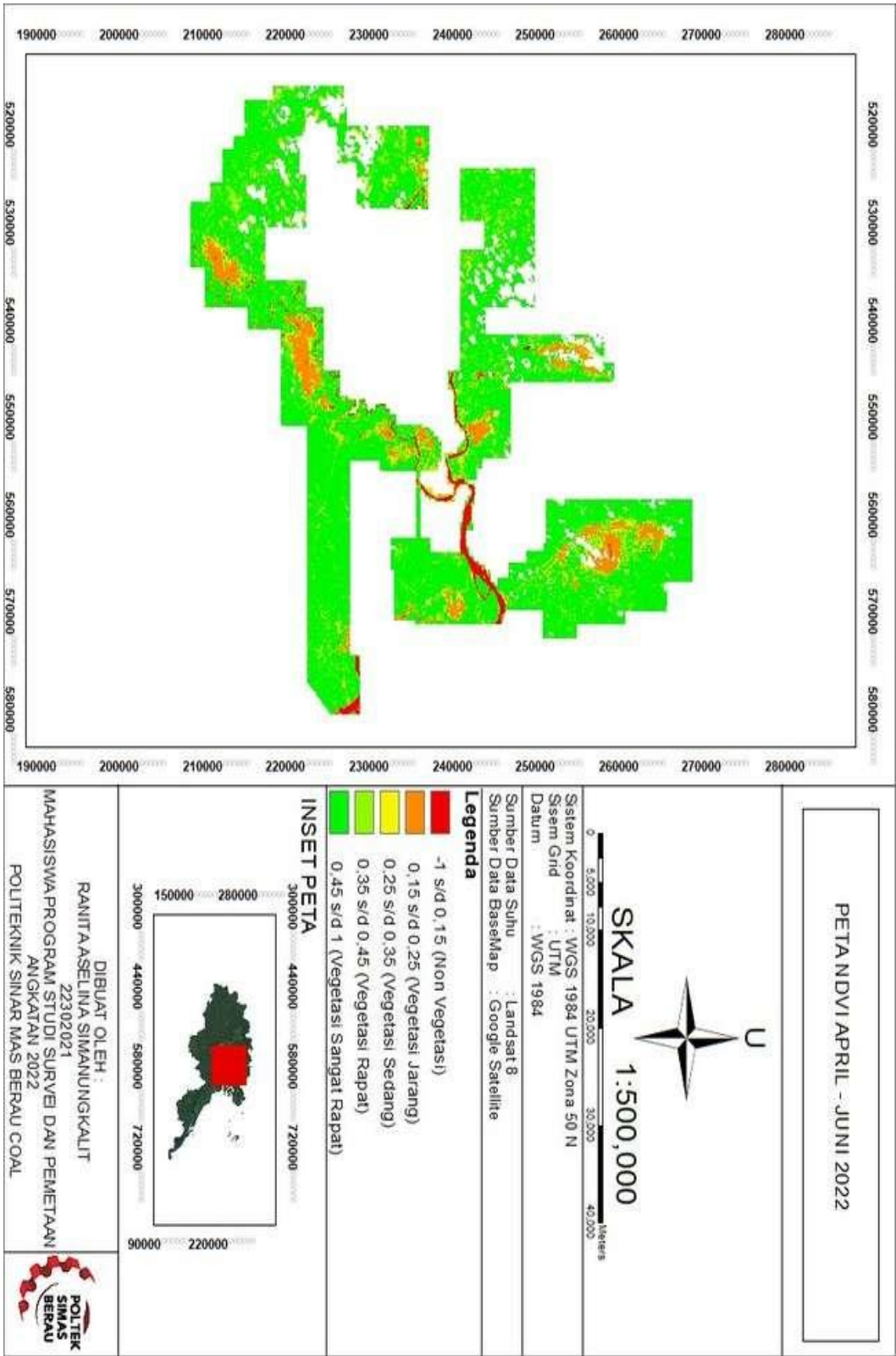


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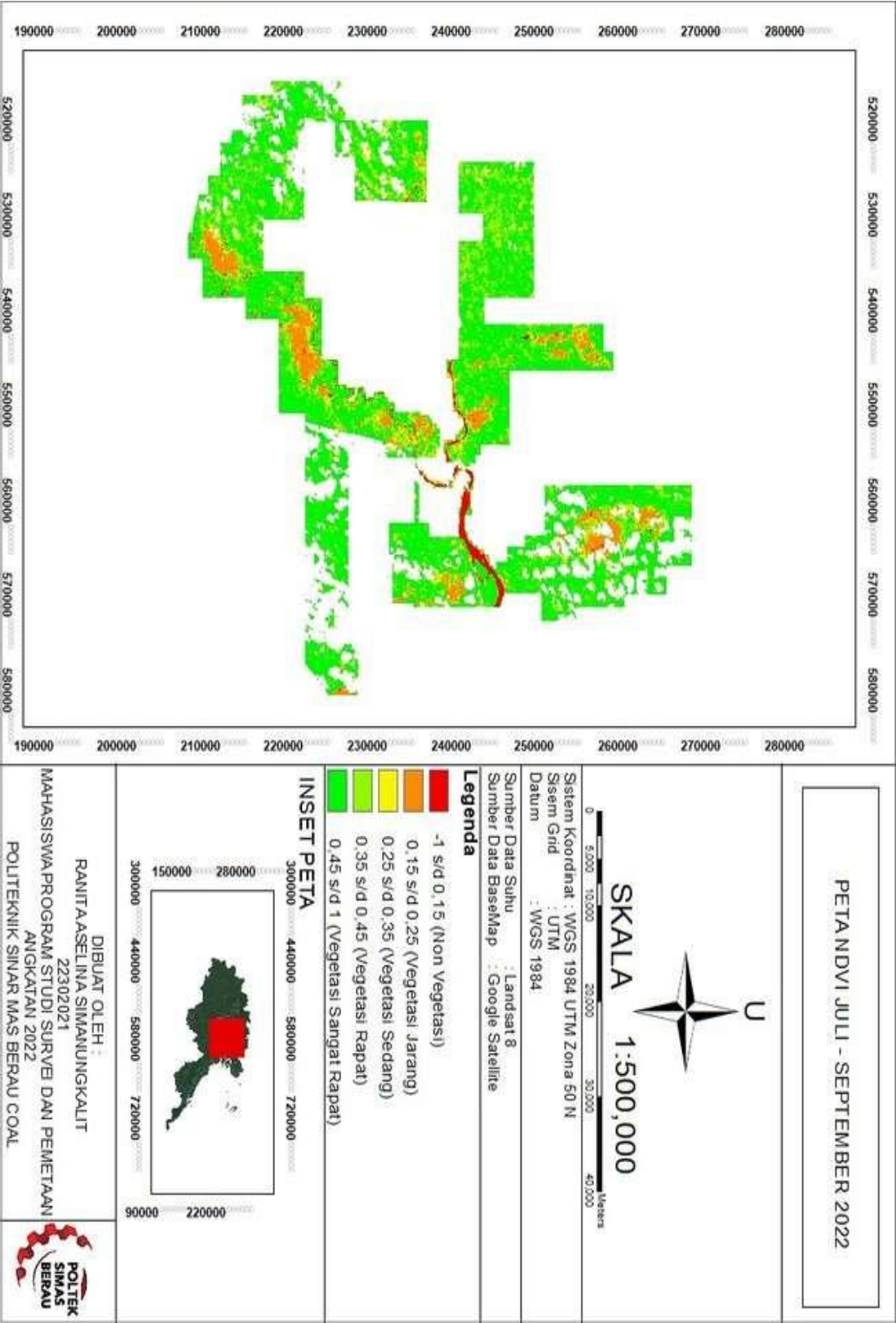
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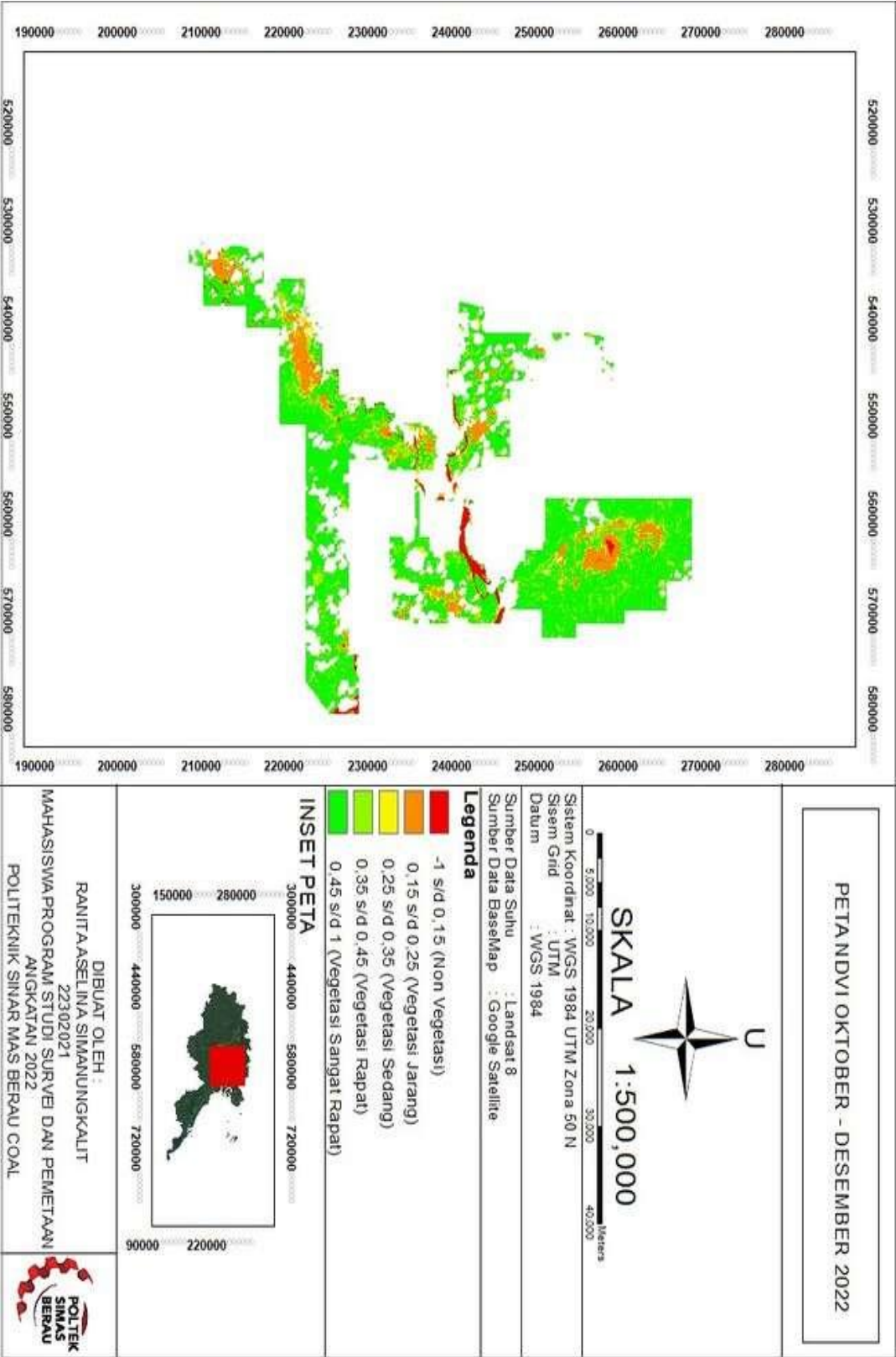
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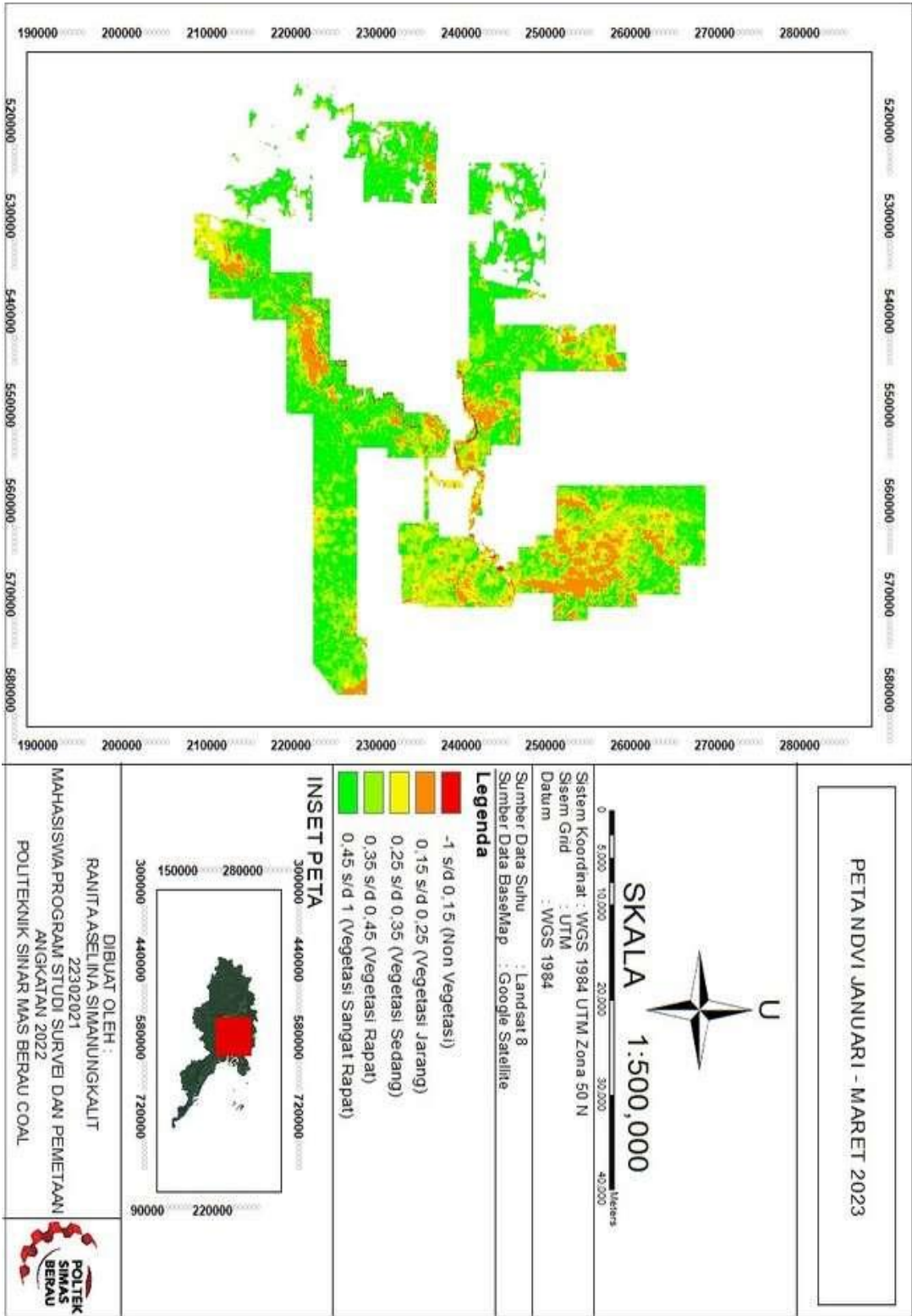
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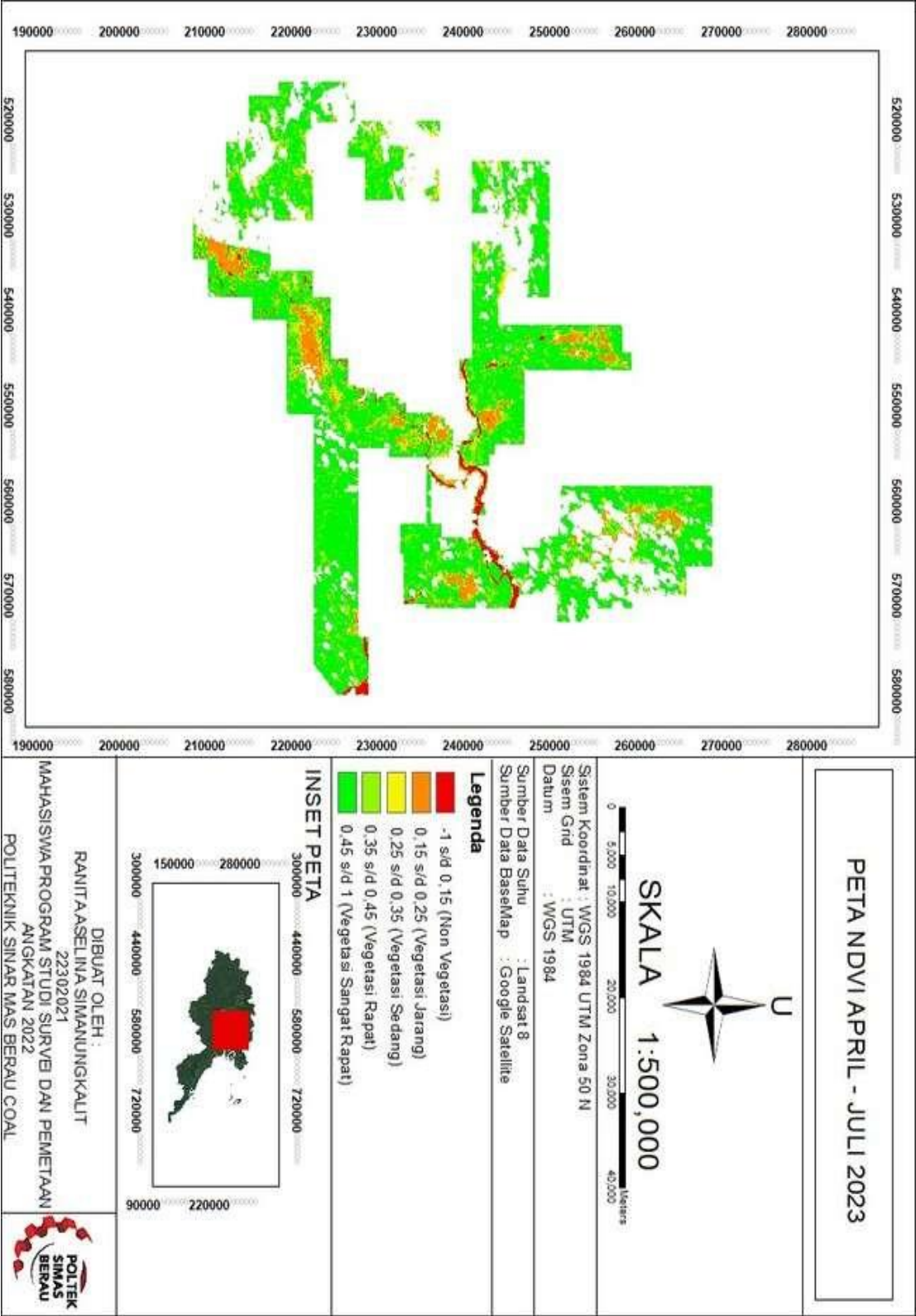
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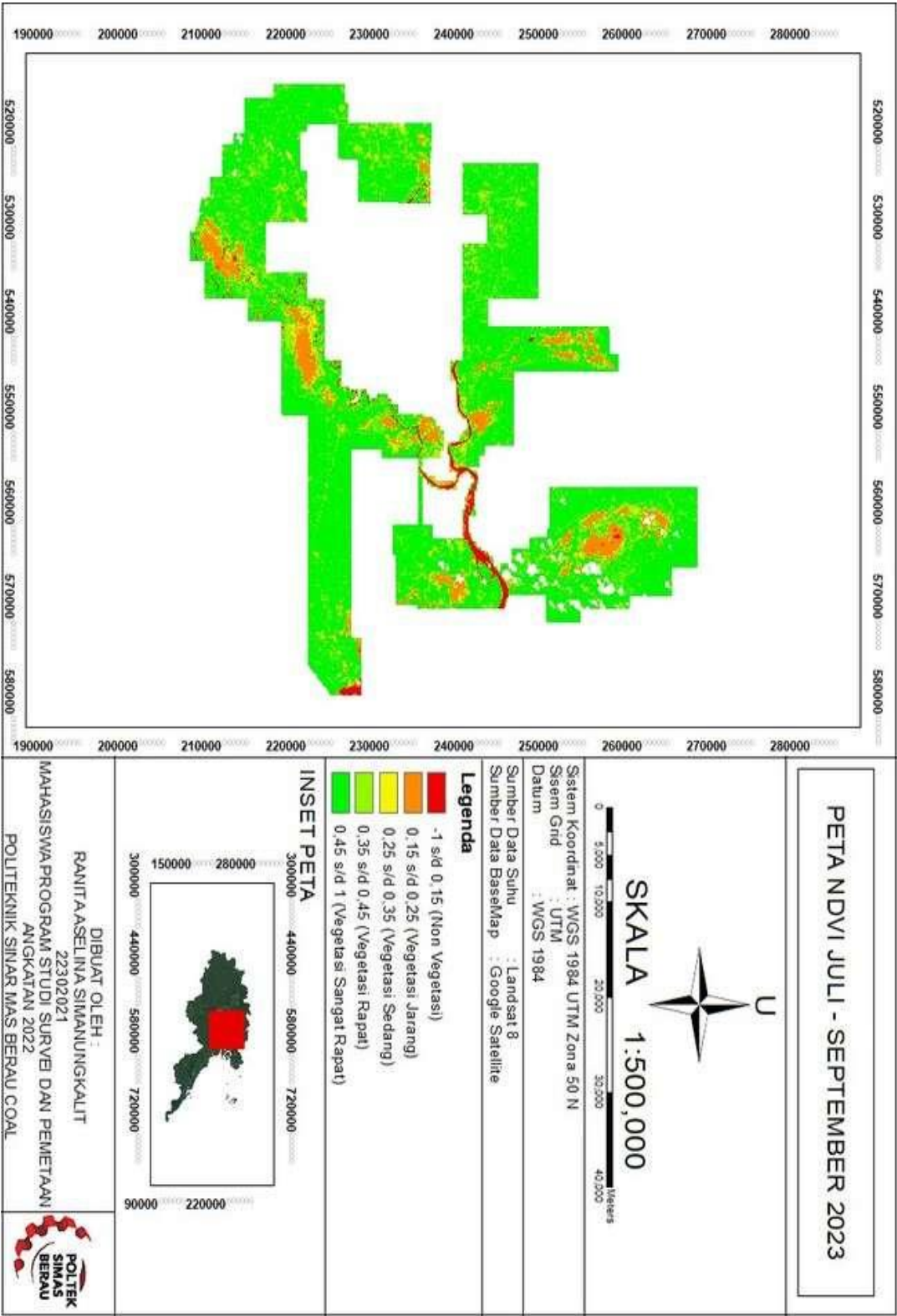
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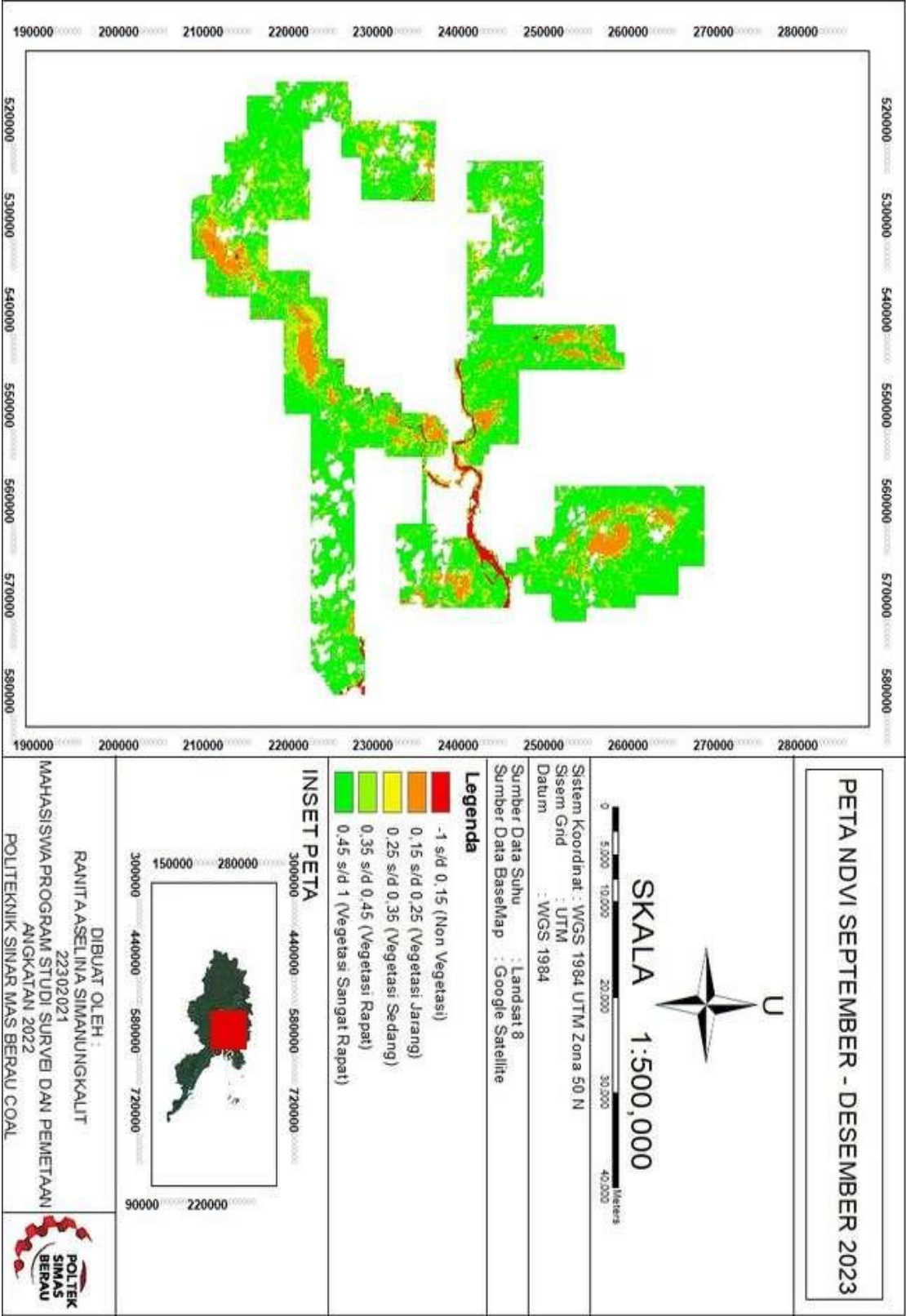
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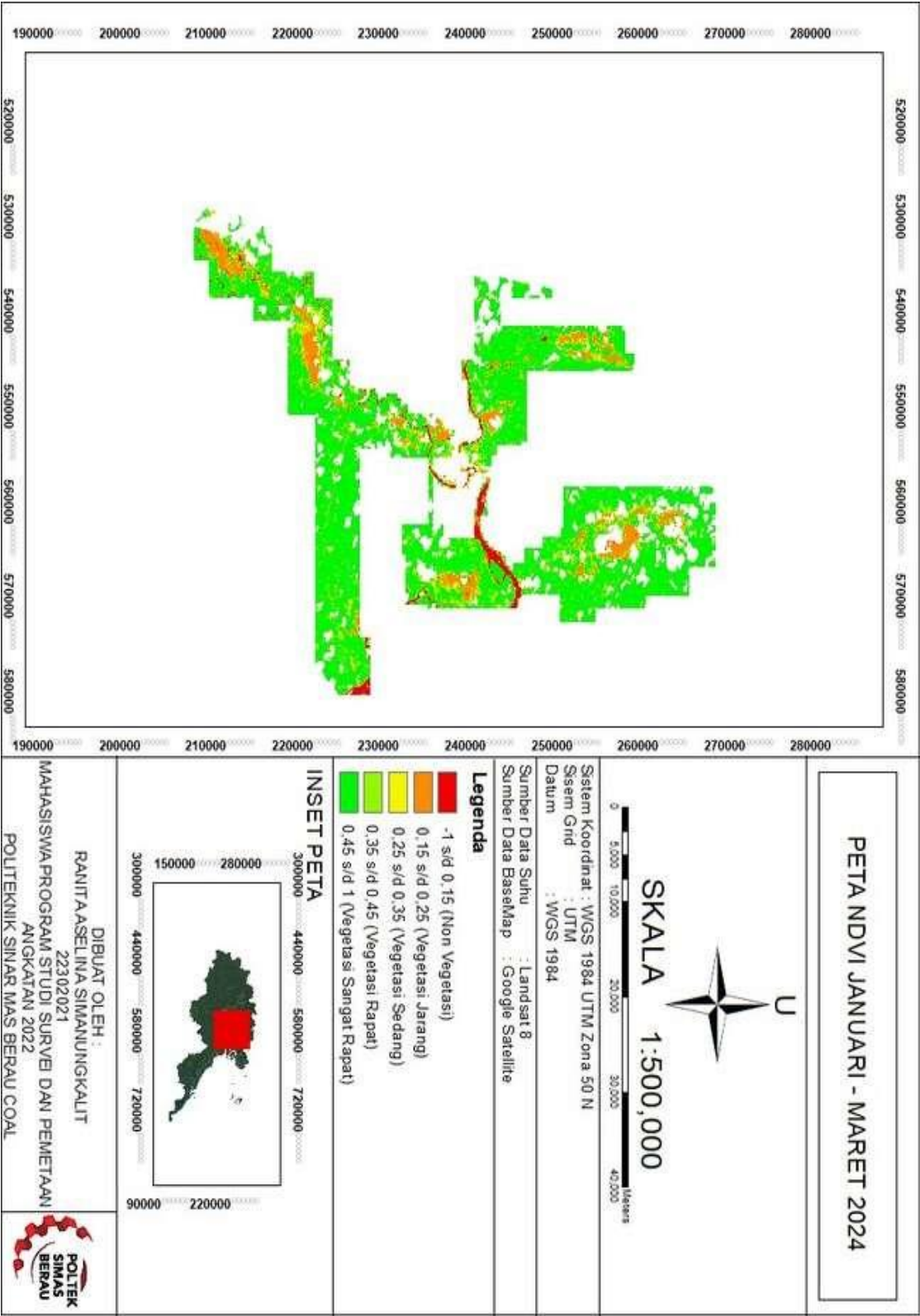
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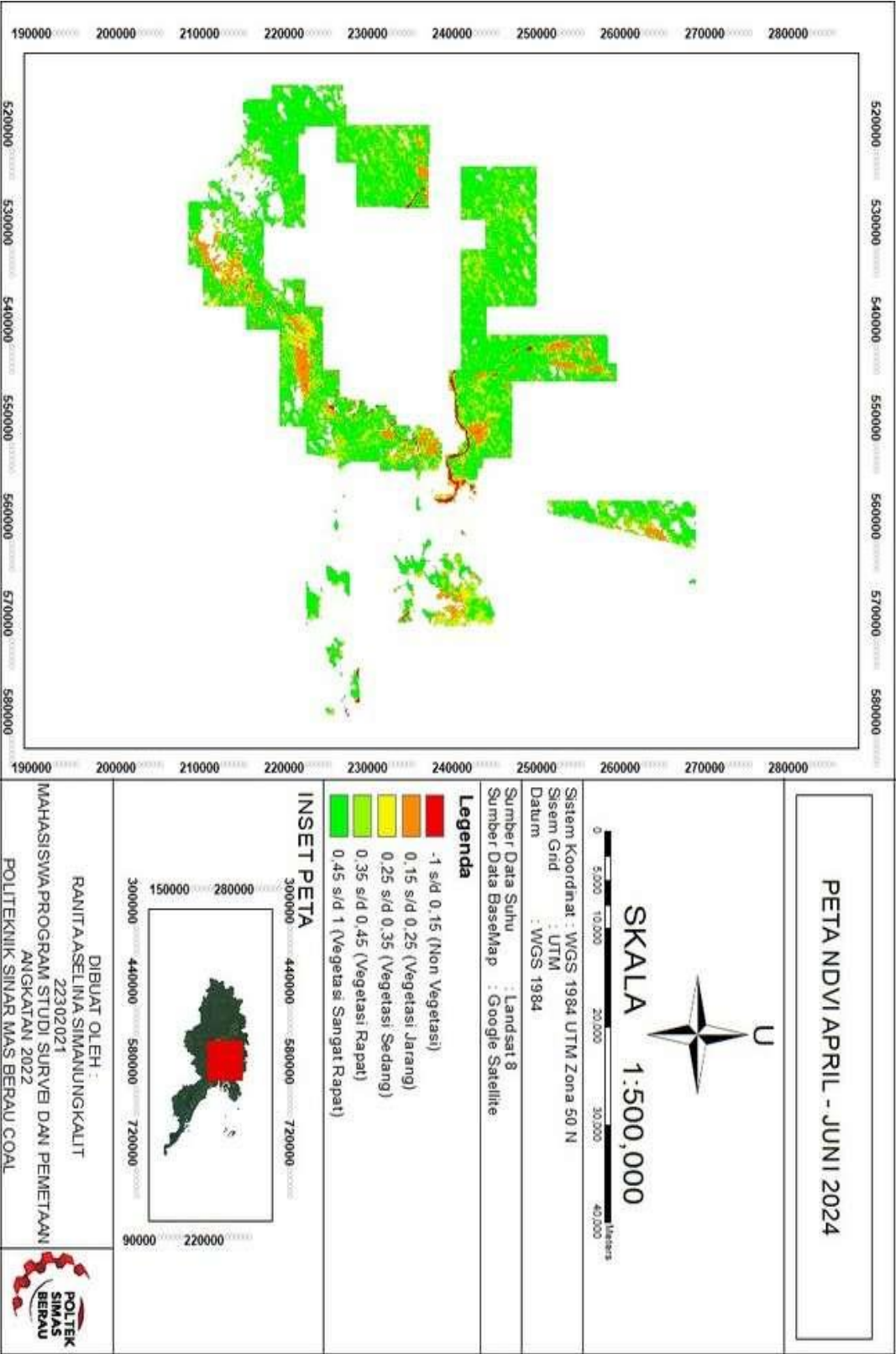
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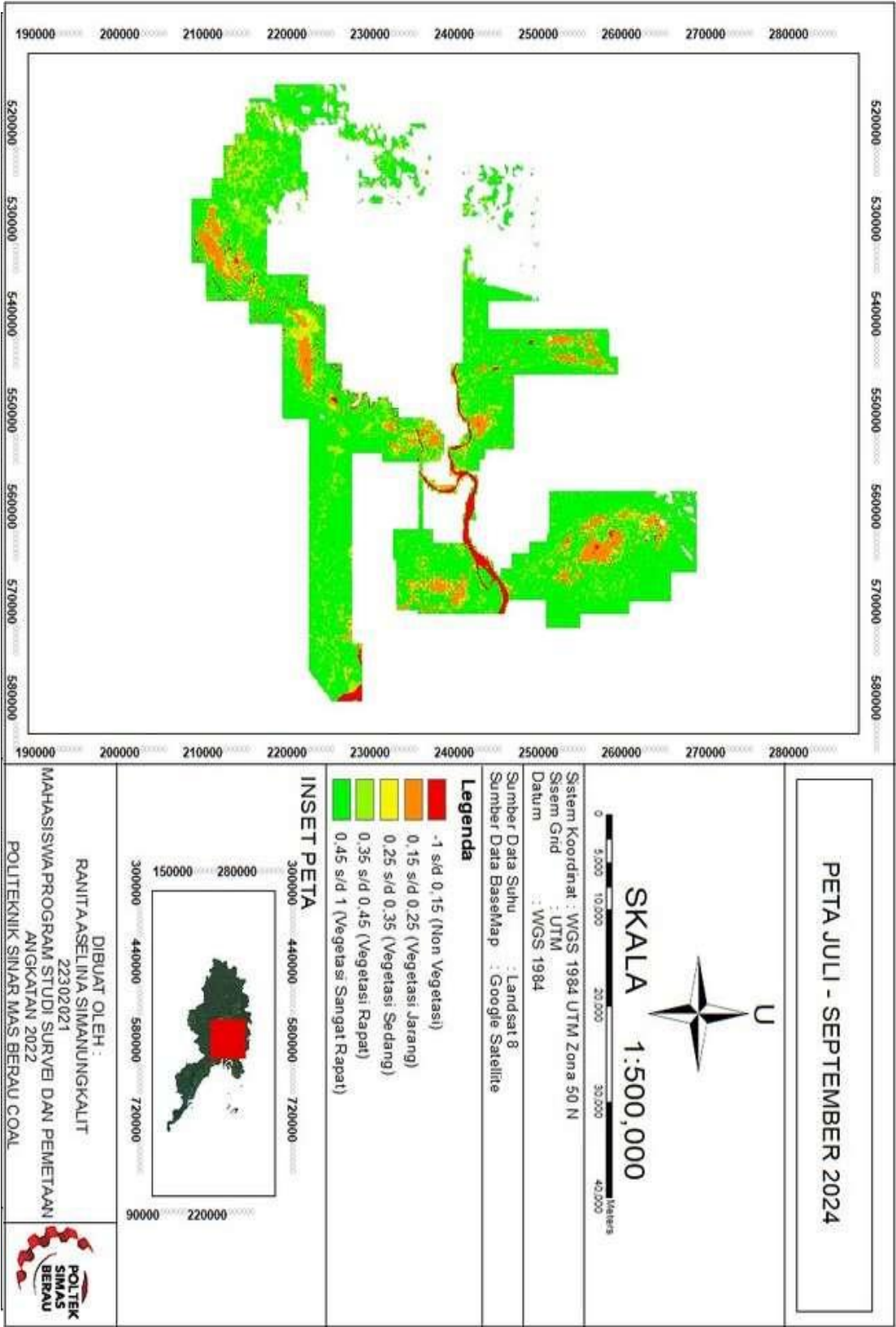
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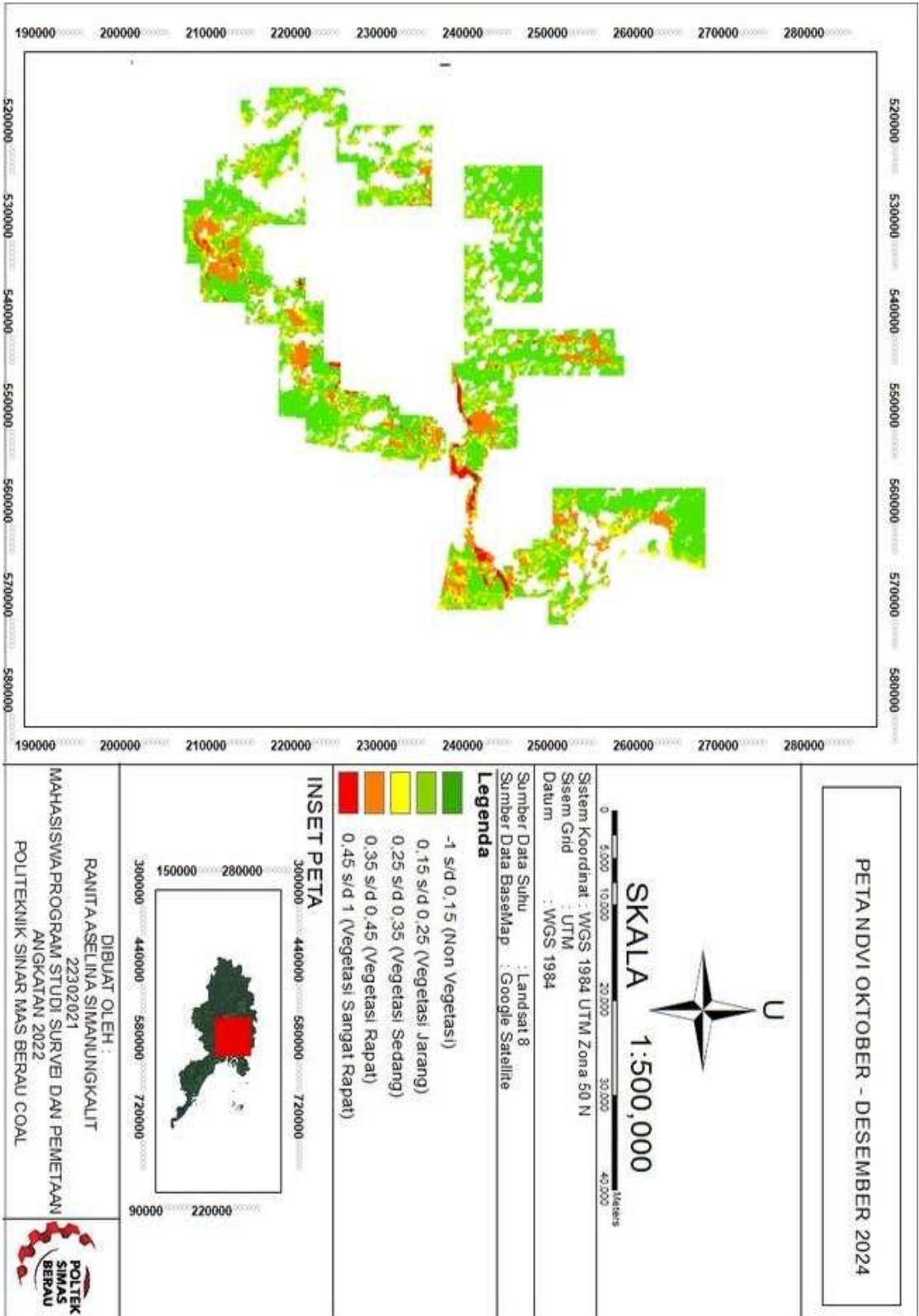
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LAMPIRAN 3. 10 PETA NDVI APRIL 2024 - JUNI 2024



LAMPIRAN 3. 11 PETA NDVI APRIL 2022 - JUNI 2024



LAMPIRAN 3. 12 PETA NDVI OKTOBER 2024 - DESEMBER 2024

Lampiran 4 Data Uji Akurasi

X	Y	Sampel Lapangan	Sampel citra	Error	Kuadrat Error	RMSE	Bias Per Data	Bias Rata-rata	STD of Enmr	Rata-rata Enmr	Kuadrat Selisih data Dengan Rata-rata	Data Populasi selisih	STD Of error
543563.14	241183.4	26.50003	39.7784793	13.2784493	176.3172158	7.851617047	-13.2784493	-13.2784493	2.391572342	7.49	705.2688633	2.386457633	0.368238407
544525.45	239463.74	28.499997	37.772604	9.272607	85.98124058		-9.272607		2.240913001		508.5501402		
543366.37	240963.39	29.000001	37.199925	8.199924	67.23875361		-8.199924		2.247781656		461.3205196		
544054.69	240961.36	29.199997	38.2541671	9.0541701	81.9779962		-9.0541701		2.271764341		498.7458893		
544498.58	240135.78	29.399964	37.9032913	8.5033273	72.30657517		-8.5033273		2.282933919		474.4457919		
541208.8	246818.93	29.099999	36.43779715	7.3379725	53.84584041		-7.3379725		2.303910636		425.0368478		
550956.47	241895.12	18.20017	34.7096153	16.5094453	272.5617841		-16.5094453		2.335576166		887.3186647		
548936.64	243521.59	29.500084	35.4946693	5.9945853	35.93505292		-5.9945853		1.750578386		371.4498627		
544079.35	244403.4	29.4	35.9131985	6.5131985	42.4217547		-6.5131985		1.768524088		391.7093226		
544115.94	244810.18	30.500094	34.6741304	4.1740364	17.42257987		-4.1740364		1.793338049		304.5892571		
548684.58	242307.85	30.699703	35.1272566	4.4275536	19.60323088		-4.4275536		1.750198866		313.5025387		
544355.19	244133.77	31.299882	37.6887823	6.3889003	40.81804704		-6.3889003		1.71193865		386.8046403		
544297.37	244108.33	32.599978	40.0767959	7.4768179	55.90280591		-7.4768179		1.734551058		430.7811165		
545214.88	239483.82	28.400009	36.4518649	8.0518559	64.83238343		-8.0518559		1.763259602		454.9819199		
563520.97	252949.85	28.701016	35.4496253	6.7486093	45.54372748		-6.7486093		1.786280143		401.0830762		
564576.02	253361.47	28.000007	36.7333233	8.7333163	76.2708136		-8.7333163		1.817522726		484.5178248		
560889.53	254609.08	29.1	34.0878959	4.9878959	24.87910551		-4.9878959		1.824738599		333.659367		
564262.83	255201.79	29.398816	37.2002904	7.8014744	60.86300281		-7.8014744		1.811128325		444.3631832		
564317.3	255234.98	28.00004	33.708771	5.708731	32.58960963		-5.708731		1.843729813		360.5130157		
559317.55	256898.81	28.800005	40.0973765	11.2973715	127.6306028		-11.2973715		1.858584506		603.970968		
562098.93	261106.93	29.799967	35.8387055	6.0387385	36.46636267		-6.0387385		1.677793695		373.1537445		
559457.54	260087.85	29.900007	35.2333575	5.3333505	28.44462756		-5.3333505		1.703214806		346.3990918		
562653.22	259663.54	29.600003	35.3961279	5.7961249	33.59506386		-5.7961249		1.699609838		363.8393809		
559624.25	260285.77	30.5	34.6787189	4.1787189	17.46169165		-4.1787189		1.714520977		304.7527216		
560654.92	260362.44	32.399985	36.5927486	4.1927636	17.57926661		-4.1927636		1.601010476		305.2432802		
562584.48	259184.88	27.400005	34.638798	7.238793	52.4001241		-7.238793		1.44384432		420.9572316		
564251.84	249337.77	27.200011	34.8177808	7.6177698	58.03041673		-7.6177698		1.48608051		436.6519727		
568968.47	239342.64	31.599998	41.1070428	9.5070448	90.38390083		-9.5070448		1.534768491		519.1787414		
568278.97	239466.16	29.499994	39.1452475	9.6452535	93.03091508		-9.6452535		1.495846537		525.4961501		
567995.17	240049.69	28.000008	35.8447999	7.8447919	61.54075995		-7.8447919		1.417302881		446.1913188		
548476.76	226069.12	28.899996	36.7465256	7.8465296	61.56802676		-7.8465296		1.465513874		446.2647335		
550930.98	226558.37	28.6	36.0246478	7.4246478	55.12539495		-7.4246478		1.518752958		428.6182295		
550087.15	225707.01	28.600129	36.0018779	7.4017489	54.78588678		-7.4017489		1.590659993		427.6705976		
550578.22	227353.02	28.799914	35.8199151	7.0200011	49.28041544		-7.0200011		1.675011102		412.0270886		
550155.08	229318.21	29.199953	38.9603732	9.7604202	95.26580248		-9.7604202		1.77602414		530.7895078		
550073.89	229344.71	28.700001	32.6279396	3.9279386	15.42870165		-3.9279386		1.586030665		296.0597846		
545083.05	220206.6	28.700033	35.3650447	6.6650117	44.42238096		-6.6650117		20.38855681		397.7416367		
543429.49	219614.85	29.299993	37.3841083	8.0841153	65.35292018		-8.0841153		16.49134393		456.3591663		
544917.4	220008.71	29.300004	36.8858506	7.5858466	57.54506864		-7.5858466		17.50718836		435.3188434		
550225.4	228401.89	29.20001	38.0861393	8.8861293	78.96329394		-8.8861293		18.74555307		491.2685445		
551743.2	232741.94	30.89995	36.298625	5.398675	29.14569176		-5.398675		21.48098314		348.8349721		
551238.36	232655.57	27.200011	34.8177808	7.6177698	58.03041673		-7.6177698		14.46893112		436.6519727		
551472.02	232191.39	31.599998	38.0861393	6.4861413	42.07002896		-6.4861413		11.28569842		390.6390416		

LAMPIRAN 4.1 UJI AKURASI SUHU (LST) DENGAN DATA PENGUKURAN TAHUN 2022

X	Y	Sampel Lapangan	Sampel citra	Error	Kuadrat Error	RMSE	Bias Per Data	Bias Rata-rata	STD of Error	Rata-rata Error	Kuadrat Selisih data Dengan Rata-rata	Data Populasi selisih	STD Of error
543563.14	241183.4	28.499999	34.3565577	5.8565587	34.29927981	6.274975586	-5.8565587	-5.8565587	2.805447165	5.63	137.1971192	2.719456872	0.419621305
544525.45	239463.74	27.899996	34.77991623	6.87992023	47.33330237		-6.87992023		2.839226508		162.2178955		
543366.37	240963.39	28.200023	34.95270205	6.75267905	45.59867435		-6.75267905		2.867460204		158.9928766		
544054.69	240961.36	28.499996	34.48091153	5.98091553	35.77135058		-5.98091553		2.897899251		140.1257961		
544498.58	240135.78	28.199994	34.96312844	6.76313444	45.73998745		-6.76313444		2.934983364		159.2566549		
541208.8	246818.93	28.000001	31.98648886	3.98648786	15.89208546		-3.98648786		2.967549897		96.88556558		
550956.47	241895.12	29.400001	36.35459049	6.95458949	48.36631497		-6.95458949		2.997288909		164.1255179		
548936.64	243521.59	29.9	35.35734238	5.45734238	29.78258585		-5.45734238		3.030439446		128.0043576		
544079.35	244403.4	29.70001	34.26732618	4.56731618	20.86037709		-4.56731618		3.074659607		108.6571675		
544115.94	244810.18	29.899998	33.52236753	3.62236953	13.12156101		-3.62236953		3.116297332		89.85008039		
548684.58	242307.85	30.499998	39.25298167	8.75298367	76.61472313		-8.75298367		3.145565082		213.4387283		
544355.19	244133.77	30.100459	33.29773662	3.19727762	10.22258418		-3.19727762		3.144169856		81.97195211		
544297.37	244108.33	30.599784	33.74222347	3.14243947	9.874925823		-3.14243947		3.167094625		80.98196806		
545214.88	239483.82	26.500017	37.52875032	11.02873332	121.6329586		-11.02873332		3.187937572		285.1130866		
563520.97	252949.85	28.300008	36.68995322	8.38994522	70.39118079		-8.38994522		3.076607985		202.9628739		
564576.02	253361.47	28.500001	37.16230318	8.66230218	75.03547906		-8.66230218		3.081030657		210.7973213		
560089.53	254609.08	30.099996	34.86889619	4.76890019	22.74240902		-4.76890019		3.070653919		112.9003766		
564262.83	255201.79	29.099911	34.72039729	5.62048629	31.58986614		-5.62048629		3.129855088		131.7225617		
564317.3	255234.98	28.001532	35.82430191	7.82276991	61.19572906		-7.82276991		3.193610579		187.1240312		
559317.55	256896.81	27.400007	35.44948396	8.04947696	64.79407933		-8.04947696		3.216631885		193.3778278		
562098.93	261106.93	31.8	34.97464154	3.17464154	10.07834891		-3.17464154		3.228175313		81.56257777		
559457.54	260087.85	30.900012	32.24523928	1.34522728	1.809636435		-1.34522728		3.277973867		51.8657213		
562653.22	259663.54	30.800022	37.4325305	6.6325085	43.990169		-6.6325085		3.245964181		155.9767995		
559624.25	260285.77	31.599972	30.12512089	-1.47485111	2.175185797		1.47485111		3.315501781		19.1993614		
560654.92	260362.44	32.199992	34.23609363	2.03610163	4.145709848		-2.03610163		2.995410474		62.29408708		
562584.48	259184.88	33.099919	36.72777961	3.62786061	13.16137261		-3.62786061		2.952644809		89.95420965		
564251.84	249337.77	26.900002	34.36222521	7.46222321	55.68477524		-7.46222321		2.992619239		177.3899516		
568968.47	239342.64	27.900005	31.49211502	3.59211002	12.9032544		-3.59211002		3.063003446		89.27734058		
568278.97	239466.16	32.999925	34.20846968	1.20854468	1.460580244		-1.20854468		3.110724873		49.91568577		
567995.17	240049.69	30.800022	37.90838794	7.10836594	50.52886634		-7.10836594		2.925769532		168.0892709		
548476.76	226069.12	28.200006	38.67233238	10.47232638	109.6696198		-10.47232638		3.035583812		266.632488		
550930.98	226558.37	29.500013	33.10105886	3.60104586	12.96753129		-3.60104586		2.878571469		89.44628401		
550087.15	225707.01	29.999995	33.4760955	3.4761005	12.08327469		-3.4761005		2.923352248		87.09852774		
550578.22	227353.02	30.599999	31.18265362	0.58265462	0.339486406		-0.58265462		2.942643387		41.46346818		
550155.08	229318.21	29.200267	33.45472146	4.25445446	18.10038275		-4.25445446		2.261843472		102.2325871		
550073.89	229344.71	29.799891	35.17498123	5.37509023	28.89159498		-5.37509023		2.154028475		126.1499377		
545083.05	220206.6	29.899978	35.05335587	5.15337787	26.55730347		-5.15337787		34.26658608		121.2187033		
543429.49	219614.85	28.900001	39.72645421	10.82645321	117.2120891		-10.82645321		34.77990181		278.3228864		
544917.4	220008.71	29.700004	35.14533284	5.44532884	29.65160618		-5.44532884		34.02610425		127.732662		
550225.4	228401.89	32.499913	39.2816286	6.7817156	45.99166648		-6.7817156		26.82073959		159.7259773		
551743.2	232741.94	29.800004	36.89437957	7.09437557	50.33016473		-7.09437557		24.93647917		167.7266985		
551238.36	232655.57	30.29998	38.27911745	7.97913745	63.66663445		-7.97913745		26.19790236		191.426488		
551472.02	232191.39	29.700016	39.74391925	10.04390325	100.8799925		-10.04390325		26.31381783		252.8246902		

LAMPIRAN 4.2 UJI AKURASI SUHU (LST) DENGAN DATA PENGUKURAN TAHUN 2023

X	Y	Sampel Lapangan	Sampel citra	Error	Kuadrat Error	RMSE	Bias Per Data	Bias Rata-rata	STD of Error	Rata-rata Error	Kuadrat Selisih data Dengan Rata-rata	Data Populasi selisih	STD OF error
543563.14	241183.4	28.689158	35.01259272	6.32343472	39.98582666	5.097555035	-6.32343472	-6.32343472	4.415723067	2.64	159.9433066	4.361540364	0.681158166
544525.45	239463.74	28.449952	31.61700314	3.16705114	10.03021292		-3.16705114		4.431896908		90.06932186		
543366.37	240963.39	28.900027	32.28768164	3.38765464	11.47620396		-3.38765464		4.488674842		94.30525656		
544054.69	240961.36	28.750073	35.28376471	6.53369171	42.68912736		-6.53369171		4.546687767		165.3057		
544498.58	240135.78	28.549849	32.02302101	3.47317201	12.06292381		-3.47317201		4.558975515		95.97350342		
541208.8	246818.93	30.899998	32.08445308	1.18445508	1.402933837		-1.18445508		4.619980716		56.36840925		
550956.47	241895.12	30.299959	34.02326109	3.72330209	13.86297845		-3.72330209		4.682896601		100.9369205		
548936.64	243521.59	28.200017	37.86407313	9.66405613	93.39398088		-9.66405613		4.747598299		255.5998637		
544079.35	244403.4	28.499997	35.87843878	7.37844178	54.4414031		-7.37844178		4.639873309		187.7414196		
544115.94	244810.18	28.5	36.2493868	7.7493868	60.05299578		-7.7493868		4.616397629		198.0443055		
548684.58	242307.85	27.700008	24.59610197	-3.10390603	9.634232643		3.10390603		4.56902672		10.36536499		
544355.19	244133.77	28.099987	23.13593858	-4.96404842	24.64177672		4.96404842		4.554257993		1.847931113		
544297.37	244108.33	29.199991	38.40435348	9.20436248	84.72028866		-9.20436248		4.439870433		241.1124859		
545214.88	239483.82	27.10007	27.39483464	0.29476464	0.086886193		-0.29476464		4.307906216		43.80056277		
563520.97	252949.85	30.599998	28.09196078	-2.50803722	6.290250697		2.50803722		4.377579905		14.55725808		
564576.02	253361.47	30.099964	31.18349741	1.08353341	1.174044651		-1.08353341		4.368441021		54.86317688		
560889.53	254609.08	30.499988	28.55480915	-1.94517885	3.783720758		1.94517885		4.452677894		19.16912446		
564262.83	255201.79	29.900007	27.21857924	-2.68142776	7.190054832		2.68142776		4.461084734		13.2642147		
564317.3	255234.98	29.69999	26.64698263	-3.05300737	9.320854001		3.05300737		4.425209235		10.69569505		
559317.55	256898.81	29.899999	30.65572516	0.75572616	0.571122029		-0.75572616		4.349006641		50.11451876		
562098.93	261106.93	29.399995	32.50804398	3.10804898	9.659968462		-3.10804898		4.429909133		88.95288478		
559457.54	260087.85	28.000004	19.62852979	-8.37147421	70.08158045		8.37147421		4.544886218		4.194465753		
562653.22	259663.54	28.200003	32.43655822	4.23655522	17.94840013		-4.23655522		3.779020846		111.5133875		
559624.25	260285.77	28.499972	33.65792849	5.15795649	26.60451515		-5.15795649		3.885001916		131.8223441		
560654.92	260362.44	28	41.62573665	13.42573665	180.2504046		-13.42573665		3.982611165		390.0297698		
562584.48	259184.88	27.900584	31.43354669	3.53296269	12.48182537		-3.53296269		3.138051148		97.1485699		
564251.84	249337.77	28.499756	31.98664144	3.48688544	12.15837007		-3.48688544		3.242052518		96.24238164		
568968.47	239342.64	26.500034	33.54105921	7.04102521	49.57603601		-7.04102521		3.357987624		178.6087892		
568278.97	239466.16	30.099994	29.36107566	-0.73891834	0.546000313		0.73891834		3.245335774		31.1868232		
567995.17	240049.69	30.599992	33.73773637	3.13774437	9.845439731		-3.13774437		3.245569976		89.51390977		
548476.76	226069.12	30.499992	30.25604693	-0.24394507	0.059509197		0.24394507		3.399950162		36.9601944		
550930.98	226558.37	29.700079	27.36712597	-2.33295303	5.442666984		2.33295303		3.444127334		15.92394412		
550087.15	225707.01	29.899959	27.52206927	-2.37788973	5.654359568		2.37788973		3.094993159		15.56732527		
550578.22	227353.02	29.399811	32.91458951	3.51477851	12.35366797		-3.51477851		2.341757487		96.79043956		
550155.08	229318.21	28.008627	35.01259272	7.00396572	49.05553581		-7.00396572		2.512593773		177.6196025		
550073.89	229344.71	28.449952	31.61700314	3.16705114	10.03021292		-3.16705114		2.416670156		90.06932186		
545083.05	220206.6	28.900027	32.28768164	3.38765464	11.47620396		-3.38765464		17.73429691		94.30525656		
543429.49	219614.85	28.750073	35.28376471	6.53369171	42.68912736		-6.53369171		19.14061578		165.3057		
544917.4	220008.71	28.549849	32.02302101	3.47317201	12.06292381		-3.47317201		21.15975134		95.97350342		
550225.4	228401.89	28.500015	34.87176454	6.37174954	40.5991922		-6.37174954		20.84916926		161.1677034		
551743.2	232741.94	26.500023	26.500023	0	0		0		28.70796412		39.98582666		

LAMPIRAN 4. 3 UJI AKURASI SUHU (LST) DENGAN DATA PENGUKURAN TAHUN 2024

X	Y	Sampel Lapangan	Sampel citra	Error	Kuadrat Error	RMSE	Bias Per Data	Bias Rata-rata	STD of Error	Rata-rata Error	Kuadrat Selisih data Dengan Rata-rata	Data Populasi selisih	STD OF error
543429.486	219614.847	0.595986366	0.489928216	-0.10605815	0.011248331	0.284119896	0.10605815	0.10605815	0.28648472	-0.02	0.044993325	0.286333291	0.044182186
544917.395	220008.706	0.544986367	0.575999916	0.031013549	0.00096184		-0.031013549		0.289664816		0.005631692		
550225.398	228401.892	0.525001287	0.412033647	-0.11296764	0.012761688		0.11296764		0.293141978		0.047972297		
551743.198	232741.941	0.538004756	0.370003283	-0.168001473	0.028224495		0.168001473		0.296517706		0.075108677		
551238.357	232655.574	0.551990449	0.29800272	-0.253987729	0.064509766		0.253987729		0.299417863		0.129633035		
549252.967	230138.12	0.465999991	0.597999692	0.131999701	0.017423921		-0.131999701		0.30085792		0.000672964		
563520.972	252949.85	0.508001208	0.61199826	0.103997052	0.010815387		-0.103997052		0.304053948		4.24812E-06		
564576.067	253249.83	0.556000054	0.589999497	0.033999443	0.001155962		-0.033999443		0.307696943		0.005192457		
564866.988	254238.15	0.581999558	0.561999559	-0.02000399	0.000400016		0.020000399		0.312058778		0.015890758		
560889.53	254609.08	0.675999582	0.590008497	-0.085991085	0.007394467		0.085991085		0.316751633		0.036882909		
564262.826	255201.79	0.572002769	0.571999013	-3.756E-06	1.41075E-11		3.756E-06		0.321440273		0.011249128		
564317.295	255238.29	0.607985795	0.555999339	-0.051986456	0.002702592		0.051986456		0.326568405		0.024978097		
562098.933	261106.93	0.58799994	0.534000039	-0.053999901	0.002915989		0.053999901		0.331906169		0.02561858		
559457.541	260087.85	0.617999315	0.587993205	-0.03000611	0.000900367		0.03000611		0.337506914		0.018513483		
562653.224	259663.54	0.508000731	0.537999749	0.029999018	0.000899941		-0.029999018		0.343469632		0.005784992		
559624.245	260285.77	0.584001184	0.529999912	-0.054001272	0.002916137		0.054001272		0.349661308		0.025619019		
560654.915	260362.44	0.534000397	0.58999759	0.055997193	0.003135686		-0.055997193		0.356243842		0.002506099		
562584.481	259184.88	0.565998375	0.413999766	-0.151998609	0.023103577		0.151998609		0.363008792		0.066593291		
543563.135	241183.4	0.314000279	0.30000183	-0.013998449	0.000195957		0.013998449		0.36944211		0.014413587		
544525.45	239463.739	0.324003875	-0.999997914	-1.324001789	1.752980737		1.324001789		0.377387892		2.045071429		
543366.373	240963.386	0.345999569	0.679999232	0.333999663	0.111555775		-0.333999663		0.259456019		0.051957333		
544054.687	240961.355	0.399998814	0.382000566	-0.017998248	0.000323937		0.017998248		0.257585143		0.01538999		
544498.584	240135.781	0.435999036	0.496003091	0.060004055	0.003600487		-0.060004055		0.26370476		0.00212098		
541208.797	246818.934	0.372000068	0.639998496	0.267998428	0.071823157		-0.267998428		0.270484538		0.026224654		
550956.467	241895.125	0.434000313	0.579999983	0.14599967	0.021315904		-0.14599967		0.271991053		0.001595325		
548936.637	243521.595	0.468000114	0.593999922	0.125999808	0.015875952		-0.125999808		0.278108451		0.00039767		
544079.35	244403.401	0.492000461	-0.201659724	-0.693660185	0.481164452		0.693660185		0.285188609		0.639549415		
544115.935	244810.177	0.492001086	0.571999431	0.079998345	0.006399735		-0.079998345		0.228145943		0.000679113		
548784.654	242307.876	0.503999949	0.586001158	0.082001209	0.006724198		-0.082001209		0.236008708		0.000578736		
544355.187	244133.771	0.514025629	0.586001158	0.071975529	0.005180477		-0.071975529		0.244723766		0.001161625		
544297.372	244108.332	0.541987836	0.597999692	0.056011856	0.003137328		-0.056011856		0.254594202		0.002504632		
545214.877	239483.819	0.607997656	0.587993205	-0.020004451	0.000400178		0.020004451		0.265886422		0.015891779		
550930.977	226558.369	0.324001342	0.571999431	0.247998089	0.061503052		-0.247998089		0.278097321		0.020146946		
548476.757	226069.121	0.314000726	0.58999759	0.275996864	0.076174269		-0.275996864		0.284700896		0.028879167		
550087.149	225707.011	0.346000552	0.465999901	0.119999349	0.014399844		-0.119999349		0.287512206		0.000194357		
550155.077	229318.206	0.435973704	0.679999232	0.244025528	0.059548458		-0.244025528		0.303622867		0.019034997		
550073.889	229344.712	0.372012734	0.382000566	0.009987832	9.97568E-05		-0.009987832		0.189525786		0.009229506		
545083.051	220206.603	0.43402195	0.496003091	0.061981141	0.003841662		-0.061981141		0.204499759		0.001942783		
543429.488	219604.899	0.469601989	0.639998496	0.170396507	0.02903497		-0.170396507		0.22032987		0.004139424		
544917.395	220008.706	0.544986367	0.579999983	0.035013616	0.001225953		-0.035013616		0.240891594		0.005047326		
550225.398	228401.892	0.525001287	0.593999922	0.068998635	0.004760812		-0.068998635		0.272342943		0.001373408		
551743.198	232741.941	0.538004756	-0.201659724	-0.73966448	0.547103543		0.73966448		0.314126646		0.715246767		
551238.357	232655.574	0.551990449	0.587993205	0.036002756	0.001296198		-0.036002756		0.385944075		0.004907758		

LAMPIRAN 4. 4 UJI AKURASI NDMIDENGAN DATA PENGUKURAN TAHUN 2022

X	Y	Sampel Lapangan	Sampel citra	Error	Kuadrat Error	RMSE	Bias Per Data	Bias Rata-rata	STD of Error	Rata-rata Error	Kuadrat Selisih data Dengan Rata-rata	Data Populasi selisih	STD OF error
545214.876	239483.819	0.541999757	0.132104889	-0.409894868	0.168013803	0.379197538	0.409894868	0.409894868	0.135511324	-0.354759789	0.672055211	0.133280614	0.020565645
544525.45	239463.739	0.514000416	0.187899187	-0.326101229	0.106342012		0.326101229		0.136876938		0.541690255		
543366.373	240963.386	0.504001498	0.22257176	-0.281429738	0.079202697		0.281429738		0.138508222		0.477929711		
544054.687	240961.355	0.462001771	0.18643257	-0.275569201	0.075938385		0.275569201		0.139776931		0.46986099		
544498.584	240135.781	0.492000699	0.1410871	-0.350913599	0.123140354		0.350913599		0.140987345		0.578829523		
550956.467	241895.125	0.467999995	0.054316819	-0.413683176	0.17113377		0.413683176		0.142875014		0.678280795		
548936.637	243521.595	0.433999956	0.23305507	-0.200944886	0.040378847		0.200944886		0.144542082		0.373125205		
544079.35	244403.401	0.372000188	0.164848357	-0.207151831	0.042911881		0.207151831		0.144142831		0.380746629		
544115.935	244810.177	0.435998231	0.19684428	-0.239153951	0.057194612		0.239153951		0.143778194		0.421264369		
544355.187	244133.771	0.346000135	0.183539793	-0.162460342	0.026393363		0.162460342		0.144226993		0.327590486		
541208.796	246818.934	0.32399416	0.191983014	-0.132011146	0.017426943		0.132011146		0.141691544		0.293662128		
544297.372	244108.332	0.314005911	0.223427996	-0.090577915	0.008204359		0.090577915		0.136944905		0.250473007		
549340.417	243061.889	0.607998908	0.097795494	-0.510203414	0.260307524		0.510203414		0.128207406		0.846580849		
547914.873	243065.893	0.629999578	-0.000214491	-0.630214069	0.397169773		0.630214069		0.128489488		1.081826601		
564866.988	254238.151	0.623999774	0.178736329	-0.445263445	0.198259535		0.445263445		0.122230676		0.73129574		
564262.826	255201.792	0.604000092	0.127756476	-0.476243616	0.226807982		0.476243616		0.123818616		0.785214113		
564576.022	253361.469	0.565999985	0.162821472	-0.403178513	0.162552913		0.403178513		0.124636912		0.661088323		
560889.53	254609.085	0.649999022	0.193971515	-0.456027507	0.207961087		0.456027507		0.126967726		0.74982156		
564317.295	255238.292	0.638016105	0.139438778	-0.498577327	0.248579351		0.498577327		0.128429926		0.825321729		
559317.546	256898.808	0.613999724	0.183313981	-0.430685743	0.185490209		0.430685743		0.128295314		0.706575764		
562100.08	258236.168	0.382000029	0.027055517	-0.354944512	0.125986507		0.354944512		0.130381421		0.584979277		
559457.541	260087.846	0.427999228	0.103657745	-0.324341483	0.105197398		0.324341483		0.133441635		0.539103019		
562653.224	259663.535	0.471998572	0.172234178	-0.299764394	0.089858692		0.299764394		0.13646807		0.503616268		
559624.245	260285.771	0.382001966	0.128017992	-0.253983974	0.064507859		0.253983974		0.139207369		0.440735117		
560654.915	260362.441	0.396000177	0.162582532	-0.233417645	0.054483797		0.233417645		0.140397395		0.413850989		
562584.481	259184.881	0.328004986	0.192329958	-0.135675028	0.018407713		0.135675028		0.14023669		0.297646511		
560294.852	257016.35	0.649999678	0.157200351	-0.492799327	0.242851177		0.492799327		0.130118505		0.81485681		
564251.838	249338.88	0.408001006	0.142895505	-0.265105501	0.070280927		0.265105501		0.13183251		0.455625498		
548381.819	227583.42	0.288004011	0.213250518	-0.074753493	0.005588085		0.074753493		0.132125189		0.234884034		
550300.355	234554.291	0.645999789	0.093922302	-0.552077487	0.304789552		0.552077487		0.101211325		0.925390812		
551472.023	232191.395	0.585999489	-0.004957402	-0.590956891	0.349230047		0.590956891		0.097627715		1.001704243		
550930.977	226558.369	0.631999433	0.138786107	-0.493213326	0.243259385		0.493213326		0.084651753		0.81560441		
550087.149	225707.011	0.514000118	0.250296563	-0.263703555	0.069539565		0.263703555		0.082608076		0.453734835		
550578.222	227353.015	0.56598115	0.182707161	-0.383273989	0.146898951		0.383273989		0.075904601		0.629116836		
550155.077	229318.206	0.5220083	0.155294359	-0.366713941	0.134479115		0.366713941		0.08032261		0.603121242		
550073.889	229344.711	0.508005261	0.184320882	-0.323684379	0.104771577		0.323684379		0.084850542		0.538138512		
545083.051	220206.603	0.591999948	0.140211642	-0.451788306	0.204112673		0.451788306		0.06761563		0.742497892		
543429.486	219614.847	0.55999887	0.233429402	-0.326569468	0.106647617		0.326569468		0.067388643		0.542379718		
544917.395	220008.706	0.490001887	0.206635967	-0.28336592	0.080296245		0.28336592		0.072775995		0.48061052		
550225.398	228401.892	0.546000659	0.094174616	-0.451826043	0.204146773		0.451826043		0.072459709		0.742562928		
551743.198	232741.941	0.623997092	0.135626808	-0.488370284	0.238505534		0.488370284		0.046801768		0.806880283		
551238.357	232655.574	0.540002048	0.147540987	-0.392461061	0.154025684		0.392461061		0.056680987		0.643775037		
549252.967	230138.12	0.663999557	0.152404144	-0.511595413	0.261729867		0.511595413		0.076158358		0.849144338		

LAMPIRAN 4. 5 UJI AKURASI NDMI DENGAN DATA PENGUKURAN TAHUN 2023

X	Y	Sampel Lapangan	Sampel citra	Error	Kuadrat Error	RMSE	Bias Per Data	Bias Rata-rata	STD of Error	Rata-rata Error	Kuadrat Selisih data Dengan Rata-rata	Data Populasi selisih	STD OF error
541208.796	246818.934	0.575999916	0.489928216	-0.0860717	0.007408338	0.417828158	0.0860717	0.0860717	0.422773033	0.00	0.02963335	0.422765577	0.065234145
544297.372	244108.332	0.412033647	0.575999916	0.163966269	0.026884937		-0.163966269		0.427681964		0.006067564		
549340.417	243061.889	0.370003283	0.412033647	0.042030364	0.001766551		-0.042030364		0.432218114		0.001939639		
547914.873	243065.893	0.29800272	0.370003283	0.072000563	0.005184081		-0.072000563		0.437666115		0.000197997		
564866.988	254238.151	0.60999716	0.29800272	-0.311996996	0.097342126		0.311996996		0.443215817		0.158458687		
550225.398	228401.892	0.587993205	0.597999692	0.010006487	0.00010013		-0.010006487		0.446246023		0.005785917		
564576.022	253361.469	0.589999497	0.61199826	0.021998763	0.000483946		-0.021998763		0.45239991		0.004105341		
560889.53	254609.085	0.561999559	0.589999497	0.027999938	0.000783997		-0.027999938		0.458805545		0.00337233		
564317.295	255238.292	0.590008497	0.561999559	-0.028008938	0.000784501		0.028008938		0.465482396		0.013014392		
559317.546	256898.808	0.571999013	0.590008497	0.018009484	0.000324342		-0.018009484		0.472453567		0.004632465		
562100.08	258236.168	0.555999339	0.571999013	0.015999674	0.00025599		-0.015999674		0.479770773		0.004910089		
559457.541	260087.846	0.534000039	0.555999339	0.0219993	0.000483969		-0.0219993		0.487440913		0.004105272		
562653.224	259663.535	0.503999949	0.534000039	0.03000009	0.000900005		-0.03000009		0.495483844		0.003144025		
551743.198	232741.941	0.571999431	0.587993205	0.015993774	0.000255801		-0.015993774		0.503924354		0.004910916		
560654.915	260362.441	0.529999912	0.537999749	0.007999837	6.39974E-05		-0.007999837		0.512834782		0.006095216		
562584.481	259184.881	0.494000673	0.529999912	0.035999239	0.001295945		-0.035999239		0.522242656		0.002507251		
549252.967	230138.12	0.465999901	0.58999759	0.123997689	0.015375427		-0.123997689		0.532139955		0.001438381		
560294.852	257016.35	0.30000183	0.413999766	0.113997936	0.012995529		-0.113997936		0.542067723		0.000779875		
564251.838	249338.88	-0.999997914	0.30000183	1.299999744	1.689999334		-1.299999744		0.552670539		1.473621296		
548381.819	227583.42	0.679999232	-0.999997914	-1.679997146	2.822390411		1.679997146		0.490680086		3.118999169		
550300.355	234554.291	0.382000566	0.679999232	0.297998666	0.088803205		-0.297998666		0.358126199		0.044913039		
551472.023	232191.395	0.496003091	0.382000566	-0.114002525	0.012996576		0.114002525		0.360615809		0.040029696		
550930.977	226558.369	0.639998496	0.496003091	-0.143995405	0.020734677		0.143995405		0.368752265		0.052930873		
550087.149	225707.011	0.579999983	0.639998496	0.059998513	0.003599822		-0.059998513		0.376916919		0.000679811		
550578.222	227353.015	0.593999922	0.579999983	-0.013999939	0.000195998		0.013999939		0.386991375		0.010014333		
550155.077	229318.206	-0.201659724	0.593999922	0.795659646	0.633074272		-0.795659646		0.398197739		0.503515053		
550073.889	229344.711	0.585851789	-0.201659724	-0.787511513	0.620174383		0.787511513		0.355729558		0.76314763		
551238.357	232655.574	0.58999759	0.571999431	-0.017998159	0.000323934		0.017998159		0.310084464		0.010830536		
543429.486	219614.847	0.59799999	0.586001158	-0.011998832	0.000143972		0.011998832		0.320933075		0.009617829		
543429.486	219614.847	0.59799999	0.586001158	-0.011998832	0.000143972		0.011998832		0.333029347		0.009617829		
550225.398	228401.892	0.587993205	0.597999692	0.010006487	0.00010013		-0.010006487		0.346605542		0.005785917		
551743.198	232741.941	0.571999431	0.587993205	0.015993774	0.000255801		-0.015993774		0.362009317		0.004910916		
551238.357	232655.574	0.58999759	0.571999431	-0.017998159	0.000323934		0.017998159		0.379648441		0.010830536		
549252.967	230138.12	0.465999901	0.58999759	0.123997689	0.015375427		-0.123997689		0.400134049		0.001438381		
548381.819	227583.42	0.679999232	0.465999901	-0.213999331	0.045795714		0.213999331		0.421964446		0.090042624		
550300.355	234554.291	0.382000566	0.679999232	0.297998666	0.088803205		-0.297998666		0.443737108		0.044913039		
551472.023	232191.395	0.496003091	0.382000566	-0.114002525	0.012996576		0.114002525		0.281806474		0.040029696		
550930.977	226558.369	0.639998496	0.496003091	-0.143995405	0.020734677		0.143995405		0.302187107		0.052930873		
550087.149	225707.011	0.579999983	0.639998496	0.059998513	0.003599822		-0.059998513		0.320503791		0.000679811		
550578.222	227353.015	0.593999922	0.579999983	-0.013999939	0.000195998		0.013999939		0.342509695		0.010014333		
550155.077	229318.206	-0.201659724	0.593999922	0.795659646	0.633074272		-0.795659646		0.361689644		0.503515053		
550073.889	229344.711	0.585851789	-0.201659724	-0.787511513	0.620174383		0.787511513		0.361691552		0.76314763		
551743.198	232741.941	0.571999431	0.587993205	0.015993774	0.000255801		-0.015993774		0.438348633		0.004910916		

LAMPIRAN 4. 6 UJI AKURASI NDMI DENGAN DATA PENGUKURAN TAHUN 2024

Lampiran 5 Uji Korelasi

X	Y	SAMPLE_NDVI	SAMPLE_SUHU	Interval Koevisien
545214.9	239483.8	0.393210709	33.00519021	-0.538314307
544525.4	239463.7	0.332304299	26.93666348	
543366.4	240963.4	0.467359155	31.11546673	
544054.7	240961.4	0.323795766	30.67127139	
544498.6	240135.8	0.413492113	30.46115664	
550956.5	241895.1	0.370631963	30.54158639	
548936.6	243521.6	0.435568184	28.23680939	
544079.3	244403.4	0.356985748	33.05130972	
544115.9	244810.2	0.493961006	35.45024258	
544355.2	244133.8	0.387143999	31.93019765	
541208.8	246818.9	0.413289517	31.74073248	
544297.4	244108.3	0.394434959	32.48200194	
549340.4	243061.9	0.073777013	33.70224004	
547914.9	243065.9	0.074851871	39.26093127	
564867	254238.2	0.427056849	33.58058887	
564262.8	255201.8	0.397961378	35.50811985	
564576	253361.5	0.351502955	36.69430095	
560889.5	254609.1	0.453104526	23.64110118	
564317.3	255238.3	0.371927261	34.86524085	
559317.5	256898.8	0.360920519	34.77543164	
562100.1	258236.2	0.066871822	43.72559633	
559457.5	260087.8	0.278894573	37.03827105	
562653.2	259663.5	0.340881199	34.99948603	
559624.2	260285.8	0.259279788	28.78282333	
560654.9	260362.4	0.312205255	34.89225019	
562584.5	259184.9	0.411780268	36.22662663	
560294.9	257016.4	0.158151118	40.34213873	
564251.8	249338.9	0.341258019	35.7373301	
548381.8	227583.4	0.371410638	34.85162478	
550300.4	234554.3	0.103595294	39.64197233	
551472	232191.4	0.178189605	36.16000418	
550931	226558.4	0.405470461	35.50945337	
550087.1	225707	0.375731945	31.09572617	
550578.2	227353	0.397342771	36.77938431	
550155.1	229318.2	0.348663956	36.36826926	
550073.9	229344.7	0.420795768	36.65407399	
545083.1	220206.6	0.311904222	31.85965589	
543429.5	219614.8	0.44732669	32.95242223	
544917.4	220008.7	0.449689209	30.29484541	

550225.4	228401.9	0.217338234	38.65935891	
551743.2	232741.9	0.4149777	34.02422335	
551238.4	232655.6	0.360199958	38.65457417	
549253	230138.1	0.299788505	36.621187	
548381.8	227583.4	0.371410638	34.85162478	
550300.4	234554.3	0.103595294	39.64197233	
551472	232191.4	0.178189605	36.16000418	
550931	226558.4	0.405470461	35.50945337	
550087.1	225707	0.375731945	31.09572617	
550578.2	227353	0.397342771	36.77938431	
550155.1	229318.2	0.348663956	36.36826926	
550073.9	229344.7	0.420795768	36.65407399	
545083.1	220206.6	0.311904222	31.85965589	
543429.5	219614.8	0.44732669	32.95242223	
544917.4	220008.7	0.449689209	30.29484541	
550225.4	228401.9	0.217338234	38.65935891	
551743.2	232741.9	0.4149777	34.02422335	
551238.4	232655.6	0.360199958	38.65457417	
549253	230138.1	0.299788505	36.621187	

LAMPIRAN 5. 1 UJI KORELASI KERAPATAN VEGETASI (NDVI) DENGAN SUHU (LST)

X	Y	SAMPLE_NDMI	SAMPLE_SUHU	Interval Koevisien
545214.876	239483.819	0.183221146	33.00519021	-0.299938975
544525.45	239463.739	0.202088743	26.93666348	
543366.373	240963.386	0.259748459	31.11546673	
544054.687	240961.355	0.242527455	30.67127139	
544498.584	240135.781	0.168834344	30.46115664	
550956.467	241895.125	0.147345737	30.54158639	
548936.637	243521.595	0.212231189	28.23680939	
544079.35	244403.401	0.224723488	33.05130972	
544115.935	244810.177	0.226206809	35.45024258	
544355.187	244133.771	0.141694158	31.93019765	
541208.796	246818.934	0.193180054	31.74073248	
544297.372	244108.332	0.174801156	32.48200194	
549340.417	243061.889	-0.052774921	33.70224004	
547914.873	243065.893	0.005772892	39.26093127	
564866.988	254238.151	0.129264712	33.58058887	
564262.826	255201.792	0.156384721	35.50811985	
564576.022	253361.469	0.113739386	36.69430095	
560889.53	254609.085	0.14620851	23.64110118	

564317.295	255238.292	0.161806032	34.86524085
559317.546	256898.808	0.124317303	34.77543164
562100.08	258236.168	-0.01933476	43.72559633
559457.541	260087.846	0.154887304	37.03827105
562653.224	259663.535	0.114192948	34.99948603
559624.245	260285.771	0.107416958	28.78282333
560654.915	260362.441	0.173389256	34.89225019
562584.481	259184.881	0.188121021	36.22662663
560294.852	257016.35	0.016420802	40.34213873
564251.838	249338.88	0.225120381	35.7373301
548381.819	227583.42	0.241991013	34.85162478
550300.355	234554.291	0.020948691	39.64197233
551472.023	232191.395	0.084122881	36.16000418
550930.977	226558.369	0.206074402	35.50945337
550087.149	225707.011	0.204083711	31.09572617
550578.222	227353.015	0.225249425	36.77938431
550155.077	229318.206	0.245449334	36.36826926
550073.889	229344.711	0.255870372	36.65407399
545083.051	220206.603	0.085609578	31.85965589
543429.486	219614.847	0.225655004	32.95242223
544917.395	220008.706	0.240826398	30.29484541
550225.398	228401.892	0.146602064	38.65935891
551743.198	232741.941	0.167002112	34.02422335
551238.357	232655.574	0.246441409	38.65457417
549252.967	230138.12	0.172425523	36.621187
548381.819	227583.42	0.241991013	34.85162478
550300.355	234554.291	0.020948691	39.64197233
551472.023	232191.395	0.084122881	36.16000418
550930.977	226558.369	0.206074402	35.50945337
550087.149	225707.011	0.204083711	31.09572617
550578.222	227353.015	0.225249425	36.77938431
550155.077	229318.206	0.245449334	36.36826926
550073.889	229344.711	0.255870372	36.65407399
545083.051	220206.603	0.085609578	31.85965589
543429.486	219614.847	0.225655004	32.95242223
544917.395	220008.706	0.240826398	30.29484541
550225.398	228401.892	0.146602064	38.65935891
551743.198	232741.941	0.167002112	34.02422335
551238.357	232655.574	0.246441409	38.65457417
549252.967	230138.12	0.172425523	36.621187

LAMPIRAN 5. 2 UJI AKURASI KELEMBAPAN (NDMI) DENGAN SUHU (LST)

X	Y	SAMPLE_NDMI	SAMPLE_NDVI	Interval Koevisien
545214.9	239483.8	0.183221146	0.393210709	0.815258068
544525.4	239463.7	0.202088743	0.332304299	
543366.4	240963.4	0.259748459	0.467359155	
544054.7	240961.4	0.242527455	0.323795766	
544498.6	240135.8	0.168834344	0.413492113	
550956.5	241895.1	0.147345737	0.370631963	
548936.6	243521.6	0.212231189	0.435568184	
544079.3	244403.4	0.224723488	0.356985748	
544115.9	244810.2	0.226206809	0.493961006	
544355.2	244133.8	0.141694158	0.387143999	
541208.8	246818.9	0.193180054	0.413289517	
544297.4	244108.3	0.174801156	0.394434959	
549340.4	243061.9	-0.052774921	0.073777013	
547914.9	243065.9	0.005772892	0.074851871	
564867	254238.2	0.129264712	0.427056849	
564262.8	255201.8	0.156384721	0.397961378	
564576	253361.5	0.113739386	0.351502955	
560889.5	254609.1	0.14620851	0.453104526	
564317.3	255238.3	0.161806032	0.371927261	
559317.5	256898.8	0.124317303	0.360920519	
562100.1	258236.2	-0.01933476	0.066871822	
559457.5	260087.8	0.154887304	0.278894573	
562653.2	259663.5	0.114192948	0.340881199	
559624.2	260285.8	0.107416958	0.259279788	
560654.9	260362.4	0.173389256	0.312205255	
562584.5	259184.9	0.188121021	0.411780268	
560294.9	257016.4	0.016420802	0.15815118	
564251.8	249338.9	0.225120381	0.341258019	
548381.8	227583.4	0.241991013	0.371410638	
550300.4	234554.3	0.020948691	0.103595294	
551472	232191.4	0.084122881	0.178189605	
550931	226558.4	0.206074402	0.405470461	
550087.1	225707	0.204083711	0.375731945	
550578.2	227353	0.225249425	0.397342771	
550155.1	229318.2	0.245449334	0.348663956	
550073.9	229344.7	0.255870372	0.420795768	
545083.1	220206.6	0.085609578	0.311904222	
543429.5	219614.8	0.225655004	0.44732669	
544917.4	220008.7	0.240826398	0.449689209	
550225.4	228401.9	0.146602064	0.217338234	

551743.2	232741.9	0.167002112	0.4149777	
551238.4	232655.6	0.246441409	0.360199958	
549253	230138.1	0.172425523	0.299788505	
548381.8	227583.4	0.241991013	0.371410638	
550300.4	234554.3	0.020948691	0.103595294	
551472	232191.4	0.084122881	0.178189605	
550931	226558.4	0.206074402	0.405470461	
550087.1	225707	0.204083711	0.375731945	
550578.2	227353	0.225249425	0.397342771	
550155.1	229318.2	0.245449334	0.348663956	
550073.9	229344.7	0.255870372	0.420795768	
545083.1	220206.6	0.085609578	0.311904222	
543429.5	219614.8	0.225655004	0.44732669	
544917.4	220008.7	0.240826398	0.449689209	
550225.4	228401.9	0.146602064	0.217338234	
551743.2	232741.9	0.167002112	0.4149777	
551238.4	232655.6	0.246441409	0.360199958	
549253	230138.1	0.172425523	0.299788505	

LAMPIRAN 5.3 UJI KORELASI KERAPATAN VEGETASI (NDVI) DENGAN KELEMBAPAN (NDMI)

**POLITEKNIK SINAR MAS
BERAU COAL**

Lampiran 6 Surat Bebas Plagiasi



SURAT BEBAS PLAGIASI

Dengan ini diterangkan bahwa TA/Skripsi yang ditulis oleh:

Nama : Ranita Aselina Simanungkalit

NIM : 22302021

Prodi : Survei dan Pemetaan

Judul : Pemanfaatan Penginderaan Jauh Dalam Pemetaan Sebaran Iklim Mikro
di Kabupaten Berau (Studi Kasus PT. Berau Coal)

Berdasarkan hasil *scanning* menunjukkan tingkat plagiasi sebesar 7% dan memenuhi syarat untuk tahapan selanjutnya dengan ketentuan yang berlaku.

Demikian surat ini dibuat untuk dipergunakan sebagaimana mestinya.

Berau, 04 September 2025



BIODATA PENULIS



Penulis bernama lengkap Ranita Aselina Simanungkalit, dilahirkan di Lapubuntul, 15 April 2005. Penulis merupakan anak pertama dari dua bersaudara . Penulis telah menempuh Pendidikan formal SDN 152989 Mardame 1, SMP Swasta Arion, dan SMAN 1 Sitahuis. Penulis meneruskan pendidikan di Program Studi Survei dan Pemetaan pada tahun 2022 dan terdaftar dengan NIM 22302021. Penulis aktif mengikuti organisasi mahasiswa antara lain menjadi anggota Himpunan

Survei dan Pemetaan (Himaspem) Divisi Pembinaan Organisasi (2023-2024) dan Divisi Penelitian dan Pendidikan. Pada tahun 2024, penulis melaksanakan kegiatan KPI (Kuliah Praktik Industri) di PT Berau Coal Site Gurimbang Mine Operation selama 3 bulan. Lalu pada tahun 2025 penulis menjalankan kegiatan Prakerin (Praktik Kerja Industri) selama 2 bulan di *Teaching Factory* (TEFA) Kampus dan selama 7 bulan di *Head Office* PT Berau Coal. Pada akhir tahun perkuliahan, penulis menyusun tugas akhir dengan judul ” Pemanfaatan Penginderaan Jauh Dalam Pemetaan Sebaran Iklim Mikro Di Kabupaten Berau (Studi Kasus Pt Berau Coal)”. Untuk keperluan penelitian, penulis dapat dihubungi melalui e-mail : ranitasimanungkalit6@gmail.com.

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