

Appendix 1

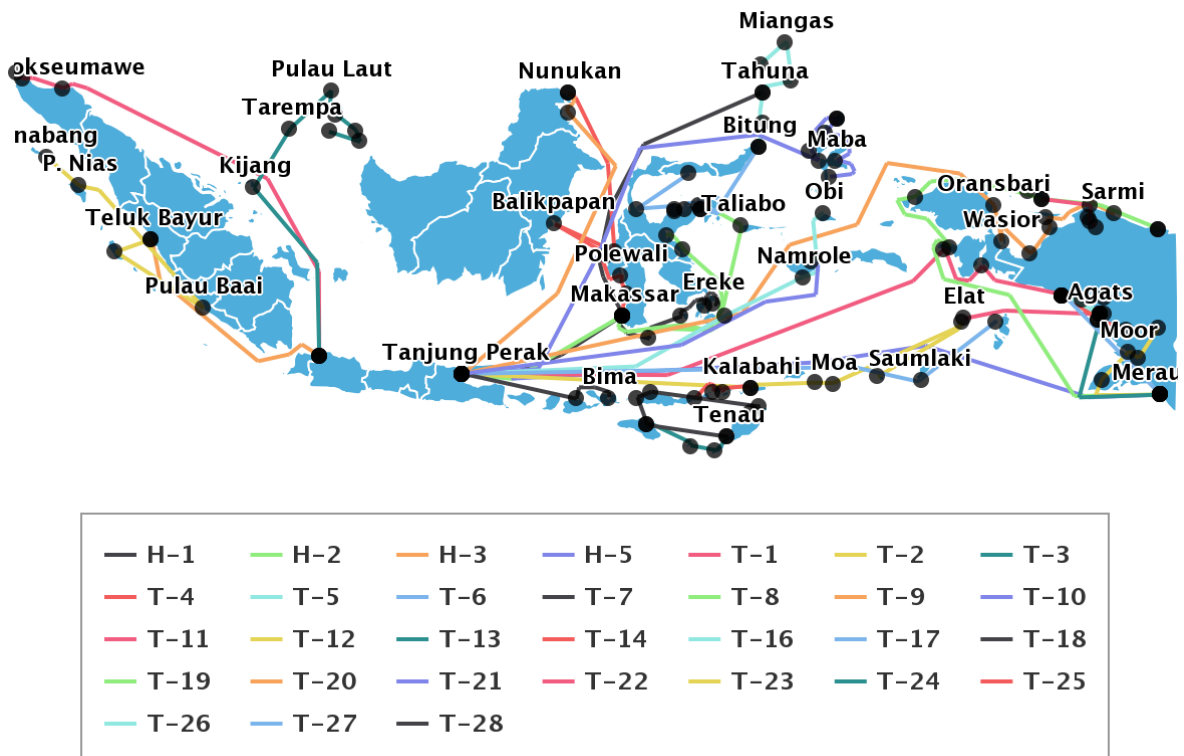
The Designated Lanes of the Maritime Highway in Operation (2022)

Route	Network	Operator	Distance (km)
H-1	Tg Perak - Makassar - Tahuna - Tg Perak	PT PELNI (PERSERO)	2,275
H-2	Tanjung Perak- Makassar (Soekarno Hatta) - Bobong (Taliabu) - Luwuk - Tanjung Perak	PT DJAKARTA LLOYD	2,149
H-3	Tanjung Priok - Teluk Bayur - Tanjung Priok	PT MERATUS LINE	1,124
H-5	Tanjung Perak - Merauke - Agats - Timika (Pomako) - Tanjung Perak	PT TEMPURAN MAS LINE	3,784
T-1	Tanjung Priok - Lhokseumawe - Malahayati - Sabang - Tanjung Priok	PI TEMPURAN MAS LINE	2,242
T-2	Teluk Bayur - Mentawai (Sikakap) - Pulau Baai - Gn. Sitoli - Sinabang- Teluk bayur - Sinabang - Gn. Sitoli - Pulau Baai - Mentawai (Sikakap) - Teluk Bayur	PT ASDP	2,456
T-3	Tg.Priok - Patimban - Kijang - Tarempa - Pulau Laut - Selat Lampa - Subi - Serasan - Midai - Tg.Priok	PT PELNI (PERSERO)	1,766
T-4	Makassar (Soekarno Hatta) - Barru (Garongkong)- Polewali (Tanjung Silopo) - Mamuju - Balikpapan - Belang-Belang - Nunukan/Sebatik- Makassar (Soekarno Hatta)	PT ASDP	1,783
T-5	Bitung - Ulu Siau/Tagulandang - Tahuna - Lirung/Melangoane - Miangas - Marore - Tahuna - Ulu Siau/Tagulandang - Bitung	PT PELNI (PERSERO)	670
T-6	Bitung - Luwuk - Pagimana - Bunta - Mantangisi- Ampana - Parigi/Tinombo - Tilamuta - Bitung	PT DJAKARTA LLOYD	889
T-7	Makassar (Soekarno Hatta) - Ereke - Raha - Sikeli- Selayar - Makassar (Soekarno Hatta)	PT DJAKARTA LLOYD	780
TÆ	Makassar (Soekarno Hatta) - Bungku - Kolonodale- Makassar (Soekarno Hatta)	PT PELNI (PERSERO)	1,125

T-9	Tanjung Perak - Oransbari - Wasior - Nabire- Serui - Waren - Sarmi - Tanjung Perak	PT LUAS LINE	4,072
T-10	Tanjung Perak - Tidore (Soasio) - Morotai - Galela - Maba/Buli- Weda - Tanjung Perak	PT PELNI (PERSERO)	2,940
T-11	Tanjung Perak - Fak Fak - Kaimana- Elat - Tanjung Perak	PT TEMPURAN MAS LINE	2,954
T-12	Tanjung Perak - Kalabahi - Kisar - Moa - Larat - Tepa - Tanjung Perak	PT PELAYARAN PELANI TI	2,452
T-13	Tanjung Perak - Rote (Ndao) - Sabu (Biu) - Tanjung Perak	PT PELNI (PERSERO)	2,452
T-14	Tanjung Perak - Lembata (Lewoleba) - Tabilota/ Larantuka - Tanjung Perak	PT PELNI (PERSERO)	1,332
T-15	Tanjung Perak - Makassar (Soekarno Hatta) - Jailolo- Morotai (Daruba) - Tanjung Perak	PT PELNI (PERSERO)	2,507
T-16	Tanjung Perak - Wanci - Namrole (Leksula) - P. Obi - Tanjung Perak	PT DJAKARTA LLOYD	2,152
T-17	Tanjung Perak - Saumlaki - Dobo - Tanjung Perak	PT TEMPURAN MAS LINE	
T-18	Tanjung Perak - Badas - Bima - Tanjung Perak	PT PELNI (PERSERO)	867
T-19	Merauke - Kokas - Sorong - Biak/Korido - Depapre/Jayapura - Sorong - Merauke	PT PELNI (PERSERO)	3,047
T-20	Tanjung Perak- Tarakan - Nunukan - Tanjung Perak	-	1,840
T-21	Tanjung Perak - Namiea - Tanjung Perak	PT TEMPURAN MAS LINE	2,076
T-22	Biak - Teba - Bagusa - Trimuris - Kasonaweja - Teba - Biak - Brumsi - Biak	PT ASDP	524
T-23	Merauke (Kelapa Lima) - Kimnam - Moor - Bade (Mapi) - Gatentiri (bovendigoel) - Merauke (Kelapa Lima)	PT ASDP	714
T-24	Merauke (Kelapa Lima) - Atsy - Agats - Atsy - Senggo - Atsy - Merauke (Kelapa Lima)	PT ASDP	1,084
T-25	Timika (Pomako) - Atsy - Eci - Atsy - Pomako	PT ASDP	644
T-26	Timika (Pomako) - Agats - Sawaerma - Mamugu - Agats - Timika (Pomako)	PT ASDP	1,252

T-27	Merauke - Timika (Pomako)	-	394
T-28	Kupang - Waingapu - Labuan Bajo - Reo - PT PELNI (PERSERO) Merauke - Atapupu/Wini - Kupang		2,725

The Maritime Highway Routes: 2022



Source: Ministry of Trade website: <http://geraimaritim.kemendag.go.id/trayek> (accessed 2 January 2022).

Appendix 2

Dependent Variables : Consumer Price Index (CPI)	Eastern Indonesia Region				Sulawesi				Papua				Maluku and Nusa Tenggara			
	General CPI	Ingredients CPI	Food CPI	Materials CPI	General CPI	Ingredients CPI	Food CPI	Materials CPI	General CPI	Ingredients CPI	Food CPI	Materials CPI	General CPI	Ingredients CPI	Food CPI	Materials CPI
		Processed	Food	Construction		Processed	Food	Construction		Processed	Food	Construction		Processed	Food	Construction
3 months	0.290 (0.712)	-0.032 (3.601)	-0.682 (1.137)	-0.676 (3.382)	0.865 (0.947)	3.328 (2.302)	-0.880 (1.205)	-0.667 (3.886)	0.525 (0.426)	7.226** (1.668)	0.388 (0.552)	6.810*** (1.988)	0.510 (0.450)	4.270** (1.223)	-0.583 (1.222)	8.297*** (1.389)
6 months	0.927*** (0.161)	3.596** (0.323)	0.031 (0.616)	1.823 (2.998)	1.125*** (0.263)	3.440** (0.547)	-0.481 (0.477)	-0.479 (1.789)	0.710*** (0.163)	2.933* (1.060)	1.430** (0.308)		0.806*** (0.115)	3.090** (0.856)	1.256*** (0.231)	
9 months	0.118 (0.465)	0.068 (1.313)	-1.179*** (0.490)	5.333* (2.641)	-0.003 (0.525)	0.185 (2.044)	-1.409* (0.669)	-1.742 (1.781)	2.172** (0.529)	2.455 (1.731)	-0.077 (1.864)	-1.047 (1.643)	1.080 (0.641)	-0.280 (1.134)	-0.445 (0.449)	-2.817 (1.840)

12 months	– 0.086 (0.249)	–0.977 (0.715)	0.302 (0.342)	–0.107 (0.323)	– 0.150 (0.360)	–1.578 (1.053)	0.420 (0.529)		0.004 (0.129)	–1.603* (0.668)	0.361 (0.191)	–0.287 (0.509)	0.070 (0.091)	– 1.127** (0.475)	0.271 (0.174)	0.016 (0.518)
15 months	– 1.692* (0.839)	–3.536 (2.214)	0.400 (0.576)	–8.555** (3.543)	– 0.685** (0.249)	–1.580 (2.099)	0.880 (0.763)		– 3.747*** (0.133)	– 8.154** (0.743)	– 0.284 (0.206)	– 11.462*** (0.456)	– 3.671*** (0.097)	– 7.743** (0.543)	– 0.392* (0.183)	– 12.390*** (0.717)
18 months	0.080 (0.227)	0.958 (0.744)	0.011 (0.506)	0.414 (2.188)	0.278* (0.142)	1.688** (0.280)	0.233 (0.836)	3.457* (1.714)	– 0.514** (0.134)	–1.142 (0.625)	– 0.464* (0.186)		– 0.437*** (0.098)	–0.627 (0.438)	– 0.544*** (0.169)	
21 months	0.906*** (0.221)	2.096 (1.438)	– 0.054 (0.495)	2.886 (4.484)	0.626** (0.236)	0.656 (0.703)	0.014 (0.761)	3.032 (3.877)	0.609 (0.954)	3.601 (2.698)	– 0.549 (1.612)	8.462** (2.103)	1.464** (0.469)	5.259** (1.411)	– 0.477 (0.605)	7.370*** (1.543)
24 months	0.759 (0.780)	0.451 (1.577)	0.265 (0.710)	–3.685 (3.446)	– 0.136 (0.076)	– 1.826** (0.542)	– 0.366 (0.357)		2.502*** (0.139)	3.743** (0.428)	1.724*** (0.215)	–9.005*** (0.574)	2.584*** (0.101)	4.494** (0.343)	1.706*** (0.155)	–8.467*** (0.453)
27 months	– 0.183	–0.737	– 0.138	0.641	0.402***	2.059** *	–0.015	–2.813	– 1.424***	– 5.981** *	– 0.210	2.060***	– 1.346***	– 5.336** *	– 0.256	2.175***

	(0.476)	(2.067)	(0.153)	(1.797)	(0.080)	(0.526)	(0.239)	(4.081)	(0.136)	(0.499)	(0.189)	(0.232)	(0.099)	(0.351)	(0.158)	(0.252)
30 months	- 0.294 *	-0.036	- 0.690 **	7.655**	- 0.378	- 0.788**	- 0.785 ***	4.889	- 0.405 *	-0.206	- 0.196		- 0.343 ***	0.354	- 0.265	
	(0.142)	(0.254)	(0.272)	(2.794)	(0.226)	(0.344)	(0.193)	(3.210)	(0.129)	(0.579)	(0.183)		(0.088)	(0.401)	(0.164)	
33 months	-0.065	4.241	-1.605	1.356**	-0.389	0.739	-0.119	1.737								
	(0.461)	(3.303)	(1.106)	(0.609)	(0.384)	(1.681)	(0.344)	(1.008)								
36 months	0.622* **	1.097	-0.574	-6.466*	0.641* *	0.521	-0.418	-6.706*								
	(0.204)	(0.837)	(0.414)	(3.410)	(0.220)	(0.869)	(0.452)	(3.289)								
39 months	- 0.585* **	- 2.059***	-0.505	-3.342	- 0.567* **	- 2.131***	-0.367	-3.434								
	(0.063)	(0.310)	(0.341)	(2.765)	(0.057)	(0.213)	(0.374)	(2.896)								
42 months	-0.418	- 2.147***	- 1.239* **		-0.398	- 2.639***	- 1.109* **									
	(0.325)	(0.207)	(0.106)		(0.343)	(0.154)	(0.156)									
Total Observati ons	2022	1281	1281	638	928	610	610	312	385	244	244	116	1094	671	671	326
r2_o	0.891	0.077	0.320	0.008	0.898	0.116	0.003	0.000	0.697	0.479	0.195	0.090	0.868	0.176	0.420	0.096

r2_w 0.976 0.776 0.894 0.037 0.986 0.884 0.904 0.050 0.985 0.856 0.967 0.277 0.971 0.690 0.905 0.066

Standard errors in parentheses. * p<0.1, ** p<0.05, *** p<0.01.
Source: Calculation by authors.

Appendix 3

Dependent Variables: Household Per Capita Expenditure	Regional Category				
	Eastern Indonesia Region	Nusa Tenggara	Sulawesi	Maluku	Papua
Maritime Highway Programme	-0.114* (0.0680)	-0.0188 (0.146)	0.675*** (0.248)	-0.0755 (0.0997)	0.00201 (0.227)
Ln (Total ART)	0.580*** (0.00370)	0.618*** (0.00774)	0.606*** (0.00615)	0.610*** (0.00720)	0.470*** (0.00807)
Ln (Age)	2.039*** (0.127)	2.562*** (0.277)	2.373*** (0.200)	1.705*** (0.259)	0.986*** (0.296)
Ln (Age ²)	-0.265*** (0.0169)	-0.338*** (0.0366)	-0.308*** (0.0266)	-0.218*** (0.0344)	-0.122*** (0.0400)
Sex	0.0973*** (0.00542)	0.0836*** (0.0108)	0.105*** (0.00853)	0.0687*** (0.0113)	0.0997*** (0.0129)
Work Status	0.00872 (0.00602)	-0.0116 (0.0131)	0.0174* (0.00910)	0.00705 (0.0124)	0.00649 (0.0148)
Total Children	0.0137*** (0.00380)	0.0214** (0.00880)	0.00178 (0.00609)	0.0235*** (0.00704)	0.0110 (0.00869)
2014 Dummy	0.0920*** (0.0100)	0.108*** (0.0213)	0.0758*** (0.0156)	0.114*** (0.0207)	0.0722*** (0.0232)

2016 Dummy	0.256*** (0.00960)	0.237*** (0.0191)	0.244*** (0.0149)	0.284*** (0.0193)	0.173*** (0.0258)
2017 Dummy	-0.511*** (0.00956)	-0.0693*** (0.0191)	-0.610*** (0.0148)	-0.306*** (0.0192)	-0.919*** (0.0257)
2018 Dummy	0.401*** (0.00959)	0.367*** (0.0189)	0.380*** (0.0150)	0.443*** (0.0191)	0.326*** (0.0257)
Constants	9.701*** (0.234)	8.547*** (0.516)	9.032*** (0.370)	10.31*** (0.482)	11.95*** (0.541)
Total Observations	114,531	16,611	50,025	25,097	22,798
Coefficient of Determination	0.539	0.555	0.522	0.507	0.603

Standard errors in parentheses. * p<0.1, ** p<0.05, *** p<0.01.

Source: Calculation by authors.

Appendix 4

Dependent Variables: Quantity of Commodities (in kilogrammes)	Eastern Indonesia Region				Nusa Tenggara			
	Rice	Fresh Fish	Chicken Meat	Beef	Rice	Fresh Fish	Chicken Meat	Beef
Ln (Total ART)	5.035*** (0.0210)	0.182*** (0.00533)	0.0224*** (0.00148)	0.0167*** (0.00134)	5.694*** (0.0669)	0.0739*** (0.00735)	0.0127*** (0.00253)	0.00692*** (0.00233)
Ln (Age)	3.583*** (0.721)	0.593*** (0.183)	0.132*** (0.0507)	0.0947** (0.0460)	9.651*** (2.393)	0.720*** (0.263)	-0.00672 (0.0903)	0.185** (0.0833)
Sex	-0.131*** (0.0308)	-0.00251 (0.00781)	-0.000621 (0.00217)	0.00122 (0.00197)	-0.322*** (0.0937)	0.0135 (0.0103)	0.000305 (0.00354)	0.00104 (0.00326)
Work Status	0.119*** (0.0342)	0.0159* (0.00867)	0.00537** (0.00241)	0.00567*** (0.00218)	0.326*** (0.113)	-0.00462 (0.0125)	0.0123*** (0.00428)	0.00271 (0.00395)
Total Children	-0.319*** (0.0216)	-0.00852 (0.00547)	-0.000964 (0.00152)	0.000482 (0.00138)	-0.483*** (0.0760)	0.00987 (0.00835)	-0.00375 (0.00287)	0.00112 (0.00265)
Maritime Highway Programme	-0.359 (0.387)	0.234** (0.0980)	0.00635 (0.0272)	-0.00575 (0.0247)	1.974 (1.258)	-0.0175 (0.138)	0.0739 (0.0475)	0.0535 (0.0438)
2014 Dummy	0.0242 (0.0570)	-0.00155 (0.0144)	-0.000236 (0.00401)	-0.0391*** (0.00364)	-0.581*** (0.184)	0.0207 (0.0203)	-0.000681 (0.00696)	-0.0231*** (0.00642)
2016 Dummy	0.832*** (0.0546)	-0.00964 (0.0138)	0.0258*** (0.00384)	-0.0300*** (0.00349)	1.621*** (0.165)	0.0574*** (0.0181)	0.0214*** (0.00622)	0.0244*** (0.00573)
2017 Dummy	-0.0367 (0.0544)	-0.0391*** (0.0138)	-0.0118*** (0.00383)	-0.0658*** (0.00347)	-0.0643 (0.165)	0.0133 (0.0181)	-0.00701 (0.00623)	-0.0287*** (0.00575)
2018 Dummy	-0.136**	0.725***	0.128***	-0.0543***	-0.0415	0.234***	0.0512***	-0.0224***

	(0.0546)	(0.0138)	(0.00384)	(0.00348)	(0.163)	(0.0179)	(0.00616)	(0.00568)
Constants	-8.381***	-1.336***	-0.305***	-0.164*	-19.88***	-1.411***	-0.0174	-0.337**
	(1.332)	(0.337)	(0.0937)	(0.0850)	(4.458)	(0.490)	(0.168)	(0.155)
Total Observations	114.531	114.531	114.531	114.531	16.611	16.611	16.611	16.611
Coefficient of Determination	0.551	0.296	0.162	0.257	0.535	0.191	0.115	0.256

Standard errors in parentheses. * $p < 0.1$, ** $p < 0.05$, *** $p < 0.01$.

Appendix 4 — Continued

Dependent Variables: Quantity of Commodities (in kilogrammes)	Sulawesi				Maluku			
	Rice	Fresh Fish	Chicken Meat	Beef	Rice	Fresh Fish	Chicken Meat	Beef
Ln (Total ART)	5.255*** (0.0323)	0.178*** (0.00758)	0.0239*** (0.00236)	0.0158*** (0.00188)	4.658*** (0.0404)	0.227*** (0.0142)	0.0111*** (0.00243)	0.00792*** (0.00212)
Ln (Age)	4.500*** (1.051)	0.730*** (0.247)	0.191** (0.0767)	0.135** (0.0610)	1.932 (1.458)	0.189 (0.512)	0.0790 (0.0876)	0.0367 (0.0766)
Sex	-0.0885** (0.0448)	0.00401 (0.0105)	-0.00362 (0.00327)	0.000695 (0.00260)	-0.153** (0.0633)	-0.000611 (0.0222)	0.000567 (0.00380)	0.00164 (0.00333)
Work Status	0.108** (0.0478)	0.0153 (0.0112)	0.00463 (0.00349)	0.00740*** (0.00278)	0.138** (0.0700)	0.0510** (0.0246)	0.0107** (0.00420)	0.00318 (0.00368)
Total Children	-0.310*** (0.0320)	-0.00778 (0.00751)	-0.00223 (0.00234)	-0.000136 (0.00186)	-0.291*** (0.0396)	-0.0325** (0.0139)	-0.00181 (0.00238)	-0.000337 (0.00208)
Maritime Highway Programme	-1.665 (1.301)	-0.110 (0.306)	0.0334 (0.0950)	-0.0480 (0.0755)	-0.0318 (0.560)	0.187 (0.197)	-0.00736 (0.0336)	-0.0320 (0.0294)
2014 Dummy	0.0567 (0.0819)	-0.0160 (0.0193)	0.00290 (0.00598)	-0.0366*** (0.00476)	-0.00494 (0.116)	0.0190 (0.0408)	0.00171 (0.00698)	-0.0179*** (0.00610)
2016 Dummy	0.752*** (0.0781)	0.0498*** (0.0183)	0.0461*** (0.00570)	-0.0259*** (0.00454)	0.578*** (0.108)	-0.234*** (0.0380)	0.0191*** (0.00650)	-0.0295*** (0.00569)
2017 Dummy	-0.269*** (0.0780)	0.00719 (0.0183)	0.00890 (0.00569)	-0.0640*** (0.00453)	0.0894 (0.108)	-0.0660* (0.0378)	-0.0138** (0.00647)	-0.0425*** (0.00566)
2018 Dummy	-0.507***	0.926***	0.137***	-0.0550***	0.106	0.808***	0.0558***	-0.0330***

	(0.0786)	(0.0185)	(0.00574)	(0.00456)	(0.108)	(0.0378)	(0.00646)	(0.00565)
Constants	-9.897***	-1.672***	-0.428***	-0.260**	-5.612**	-0.679	-0.186	-0.0495
	(1.941)	(0.456)	(0.142)	(0.113)	(2.708)	(0.951)	(0.163)	(0.142)
Total Observations	50,025	50,025	50,025	50,025	25,097	25,097	25,097	25,097
Coefficient of Determination	0.554	0.336	0.142	0.213	0.540	0.301	0.101	0.238

Standard errors in parentheses. * p<0.1, ** p<0.05, *** p<0.01.

Appendix 4 – Continued

Dependent Variables: Quantity of Commodities (in kilogrammes)	Papua			
	Rice	Fresh Fish	Chicken Meat	Beef
Ln (Total ART)	5.035*** (0.0210)	0.182*** (0.00533)	4.453*** (0.0408)	0.230*** (0.0130)
Ln (Age)	3.583*** (0.721)	0.593*** (0.183)	-4.366*** (1.498)	0.444 (0.476)
Sex	-0.131*** (0.0308)	-0.00251 (0.00781)	-0.216*** (0.0654)	-0.0207 (0.0208)
Work Status	0.119*** (0.0342)	0.0159* (0.00867)	-0.0557 (0.0747)	-0.0125 (0.0237)
Total Children	-0.319*** (0.0216)	-0.00852 (0.00547)	-0.309*** (0.0439)	0.00515 (0.0140)
Maritime Highway Programme	0.0242 (0.0570)	-0.00155 (0.0144)	0.430*** (0.117)	-0.00549 (0.0373)
2014 Dummy	0.832*** (0.0546)	-0.00964 (0.0138)	0.690*** (0.131)	0.0387 (0.0415)
2016 Dummy	-0.0367 (0.0544)	-0.0391*** (0.0138)	0.284** (0.130)	-0.163*** (0.0412)
2017 Dummy	-0.136** (0.0546)	0.725*** (0.0138)	0.275** (0.130)	0.546*** (0.0413)
2018 Dummy	-8.381***	-1.336***	6.179**	-0.931

	(1.332)	(0.337)	(2.733)	(0.868)
Constants	5.035***	0.182***	4.453***	0.230***
	(0.0210)	(0.00533)	(0.0408)	(0.0130)
Total Observations	114.531	114.531	22.798	22.798
Coefficient of Determination	0.551	0.296	0.555	0.260

Standard errors in parentheses. * p<0.1, ** p<0.05, *** p<0.01.
Source: Calculation by authors.

Appendix 5

Changes in Night-Time Light Intensity in eastern region and islands as an Impact of Operating the Maritime Highway Programme, 2012–2017

Dependent Variables: Night-Time Light Intensity	Eastern Indonesia Region	Nusa Tenggara	Sulawesi	Maluku	Papua
Maritime Highway Programme	0.425*** (0.0411)	0.452*** (0.144)	0.506*** (0.0657)	0.364*** (0.0341)	0.373*** (0.0981)
Constants	-1.746*** (3.94e-05)	-1.699*** (6.24e-05)	-1.462*** (4.66e-05)	-1.995*** (8.56e-05)	-2.258*** (0.000115)
Total Observations	467,438	90,224	220,002	50,942	106,270
Total Villages	22,516	4,397	10,380	2,352	5,387

Standard errors in parentheses. * p<0.1, ** p<0.05, *** p<0.01
Source: Calculation by authors.

Changes in Night-Time Light Intensity in the areas of the participating ports as an Impact of Operating the Maritime Highway Programme, 2012–2017

Dependent Variables: Night-Time Light Intensity	Zoning for the Radius of Village/District Locations to Participating Ports					
	≤ 2 km	≤ 5 km	≤ 7 km	≤ 10 km	≤ 12 km	≤ 15 km
Maritime Highway Programme	0.0583*** (0.0172)	0.0796*** (0.0119)	0.0797*** (0.00975)	0.0822*** (0.00883)	-0.0610 (0.0732)	-0.0515 (0.0739)
Constants	-1.626*** (0.0214)	-1.588*** (0.0156)	-1.611*** (0.0134)	-1.651*** (0.0120)	-1.714*** (0.0116)	-1.704*** (0.0107)
Total Observations	8,947	15,280	19,968	24,647	30,278	35,229
Total Villages	429	733	965	1,191	1,463	1,703

Standard errors in parentheses. * p<0.1, ** p<0.05, *** p<0.01.
Source: Calculation by authors.