

Supplementary Material for:

# Current Dependent Dispersal Characteristics of Japanese Glass Eel around Taiwan

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**Supplementary Table S1.** The original catch data from 2010 to 2020 (number of the glass eel) at the 10 sampling sites in Taiwan (Tamsui, Hsinchu Miaoli, Changhua, Yunlin, Chiayi, Tainan, Pingtung, Ilan, Hualien, and Taitung) were collected according to the Taiwan Japanese Glass Eel Reporting System (Fisheries Agency, Council of Agriculture, Executive Yuan, Taiwan). W represents the week; NA means no catch data has been reported during that week.

Year Week	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Tamsui											
Nov W1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov W2	NA	50	692	NA	NA	NA	NA	NA	NA	NA	NA
Nov W3	NA	30	1530	24000	8597	3705		6113	NA	265	13066
Nov W4	2000	170	10721	247325	6897	7738	160385	9753	NA	17146	25386
Dec W1	75003	127	52520	151589	31728	10496	468979	15658	28698	23656	131854
Dec W2	52503	70	99510	817388	304251	28235	147991	19054	274566	21995	241871
Dec W3	54100	119	82610	869017	162059	76733	127563	20911	248522	19927	337709
Dec W4	52000	393	20990	927325	34552	65402	131708	28362	306233	17715	266663
Jan W1	63000	198	100600	834390	48385	39927	186826	35764	597762	28007	210862
Jan W2	58500	52	141350	352302	40136	65646	242328	40231	857363	124221	183952
Jan W3	25500	77	178000	676321	40083	110962	201246	43526	559790	185207	191373
Jan W4	39000	280	137510	713197	80217	163825	138051	56238	163393	686562	214055
Feb W1	NA	450	57350	1077694	97121	377061	91903	89791	28459	931868	223505
Feb W2	8500	175	30900	539825	50398	571960	83974	119584	9640	1007719	184469
Feb W3	18500	162	32870	463915	43781	263770	94106	131314	13749	781599	122964
Feb W4	NA	170	32920	33905	29867	95240	80038	128479	15715	552036	45713
Year Week	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hsinchu											
Nov W1	NA	18		NA	NA	NA	NA	NA	NA	NA	NA
Nov W2	NA	1000	4	NA	1850	NA	NA	NA	NA	54	NA
Nov W3	NA	1684	9	NA	1900	NA	NA	NA	245	332	13066
Nov W4	NA	2206	44	9890	1790	1475	1557	59	3292	2123	25386
Dec W1	NA	1341	228	32919	2350	4424	53734	253	13127	3399	131854
Dec W2	NA	616	758	69544	1400	9003	28716	157	18899	5451	241871
Dec W3	NA	87	863	72400	2100	3505	34194	2398	26496	4042	337709
Dec W4	NA	14	418	35022	2230	7993	52127	3147	25369	46732	266663
Jan W1	NA	NA	697	33236	2950	7075	46441	4524	33570	40808	210862
Jan W2	NA	NA	411	37451	3624	9555	62053	3652	74106	56153	183952
Jan W3	NA	NA	422	35866	2830	15331	44515	4220	26197	65968	191373
Jan W4	NA	NA	417	38458	4120	NA	31069	19828	18048	87225	214055
Feb W1	NA	NA	79	36703	3325	69987	987	27116	19377	154282	223505
Feb W2	NA	NA	NA	36332	1870	NA	20200	19282	16506	280419	184469
Feb W3	NA	NA	NA	36378	3180	59396	18828	40731	8071	239016	122964
Feb W4	NA	NA	NA	41712	3650	9222	30885	36189	3868	151710	45713
Year Week	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Changhua											
Nov W1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov W2	NA	450	NA	NA	NA	NA	NA	NA	3046	5	NA

Nov W3	NA	870	NA	NA	NA	1400	NA	NA	3478	647	150
Nov W4	1307	9800	1845	17900	6700	9600	400	NA	5856	1400	8311
Dec W1	5500	6000	3370	54000	9704	7100	2300	NA	17730	4225	9260
Dec W2	14000	4010	3750	170744	13068	8650	20400	231	16834	2628	10886
Dec W3	10500	7500	3200	135000	6642	6850	23703	5035	28116	16456	18515
Dec W4	18000	21000	4000	92100	5723	5300	39857	4046	NA	89986	18020
Jan W1	14500	14750	3600	90000	6630	30136	68491	NA	78577	127632	22696
Jan W2	16000	3500	19000	103624	6062	34602	152270	6676	37258	65019	16341
Jan W3	30000	21000	27200	33852	6448	98700	91578	2699	29518	63236	17996
Jan W4	43000	NA	49000	21266	14098	82500	55896	6396	9146	70818	136800
Feb W1	106000	26200	23500	25014	31749	16000	49675	4860	NA	NA	104900
Feb W2	24000	15500	8400	48922	20148	42500	NA	4600	19529	53729	56135
Feb W3	50000	16700	5500	14000	11475	20700	113840	20286	7067	59850	49360
Feb W4	NA	15000	17000	12600	11392	10500	31180	NA	NA	74266	NA

<b>Year Week</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
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**Yunlin**

Nov W1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov W2	NA	1750	NA	NA	NA	NA	NA	NA	NA	NA	806
Nov W3	NA	42985	NA	36930	NA	NA	370	NA	NA	95	2886
Nov W4	2035	57817	NA	72600	NA	3384	1103	NA	415	1844	2284
Dec W1	64120	17826	3505	287480	NA	4511	42498	602	3211	2897	2875
Dec W2	47228	18894	3397	65140	14931	3318	31893	7691	12072	18732	4127
Dec W3	84444	21365	8845	17090	12790	3276	20478	2506	24447	48685	5044
Dec W4	44615	37186	5619	20535	6660	7859	48487	3790	10428	32250	4049
Jan W1	80342	12701	31541	34330	4046	67506	67817	1642	14423	51847	4288
Jan W2	53227	12758	30851	7040	2529	52642	19024	391	12596	27765	6842
Jan W3	258278	40142	54455	2260	11492	10055	11458	1982	1293	13507	38963
Jan W4	266502	14013	27812	24810	24186	2313	30116	2308	814	7456	25506
Feb W1	61343	10402	4753	33130	9130	6969	9680	608	3135	8678	7169
Feb W2	48568	6129	1876	7420	4228	4338	6187	2108	954	3778	3925
Feb W3	12516	9671	1744	2475	6181	4286	5931	5106	825	4164	5078
Feb W4	NA	9033	1246	10490	5935	1335	5490	1902	105	6254	3705

<b>Year Week</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
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**Chiayi**

Nov W1	NA	NA	NA	NA	NA	NA	NA	NA	370	45	NA
Nov W2	NA	17098	NA	NA	NA	4600	NA	NA	1595	217	127
Nov W3	NA	33698	4080	64390	6190	12333	456	NA	985	454	179
Nov W4	13456	44637	9190	155543	41952	2751	1120	NA	17309	8862	4864
Dec W1	53136	30957	10792	688492	7864	7282	56125	950	18308	10979	37714
Dec W2	49884	40387	7583	81283	42693	8984	24850	4911	37707	47301	47265
Dec W3	40719	43199	12567	76046	34636	5049	26800	2200	57060	153098	37667
Dec W4	57354	57221	21649	147977	16285	25874	35669	16376	58535	137353	21509
Jan W1	89654	36662	78021	156042	5548	106142	52479	4642	34323	126434	10234
Jan W2	89635	13619	55119	57689	3451	70600	13616	3366	40061	114048	49165
Jan W3	300924	83533	81690	14990	34775	37321	31347	4187	20228	84276	152563
Jan W4	203407	28644	50430	80707	64561	3125	25824	12021	12788	63404	113920
Feb W1	77632	22296	39340	109502	18987	15744	10158	2174	13773	53245	53441
Feb W2	124935	28669	23680	21240	4848	17020	14277	3357	11354	33698	57494
Feb W3	90783	13740	20190	4252	18260	11285	4500	9527	3873	75042	73043
Feb W4	NA	28739	10899	50582	25338	1517	3182	16195	NA	93170	41428

<b>Year Week</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
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**Tainan**

Nov W1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov W2	NA	26836	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov W3	NA	52655	2100	11545	NA	35500	NA	NA	3397	NA	3000

Nov W4	10854	54186	7050	198937	54340	5400	NA	NA	15958	12957	27450
Dec W1	44927	25735	6540	427266	42317	48423	5357	NA	19707	27507	13500
Dec W2	60644	31678	8720	577121	46864	16273	118520	4500	39372	56950	45000
Dec W3	44373	24195	13341	58168	48662	10500	55388	12185	75883	251153	134400
Dec W4	51554	30657	16921	66779	80041	8110	81949	16050	89747	168456	53250
Jan W1	64643	17049	52121	207251	26694	139129	69946	17648	NA	136803	28350
Jan W2	96484	5782	58971	124201	4310	84900	103088	4980	77780	213113	58752
Jan W3	246087	47819	73663	24148	193888	66900	25398	7930	31970	130600	76661
Jan W4	192815	16237	71467	38283	172694	53988	78709	7400	23617	88255	307500
Feb W1	50783	18962	38328	178500	58988	4600	49578	16270	29915	NA	147750
Feb W2	124775	30705	22133	76584	83300	NA	NA	4400	NA	117712	150341
Feb W3	43099	10931	13259	4495	13257	NA	32680	9320	21250	NA	92850
Feb W4	NA	21146	14479	28939	78753	64920	11850	NA	5753	119485	141300

<b>Year Week</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
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#### Pingtung

Nov W1	NA	2311	1827	NA	4735	13638	NA	NA	800	97	135
Nov W2	NA	6996	2993	NA	30242	13918	NA	NA	1612	1169	13399
Nov W3	15181	17400	4421.5	200106	47480	3210	41259	4	1322	4900	12744
Nov W4	24042	11589	1179	154778	20839	2633	28127	13	6158	8587	9831
Dec W1	38407	9780	3046	124918	128465	291	110637	65	11428	25202	20494
Dec W2	19931	7667	1376	66755	45240	536	146235	402	17475	99576	27194
Dec W3	23019	7320	5853	49744	31820	8010	54750	766	4091	164915	8777
Dec W4	2792	3926	1147	58494	16903	22040	109695	1180	3544	56278	10535
Jan W1	5190	540	797	44411	14684	76600	143380	4100	6518	20673	9220
Jan W2	13887	1398	1824	30063	6743	8965	32823	3167	2304	14875	12226
Jan W3	41374	3420	1605	30378	6349	1250	3820	3700	1666	7900	8997
Jan W4	NA	NA	617	22042	5959	302	NA	1553	1053	4402	6430
Feb W1	NA	2560	558	20246	5140	996	NA	1881	247	1050	1226
Feb W2	150	132	298	6525	5254	360	NA	1750	NA	6526	800
Feb W3	643	NA	NA	3452	3968	730	NA	454	NA	5668	NA
Feb W4	NA	NA	138	12551	1524	180	NA	183	NA	2008	1900

<b>Year Week</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
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#### Ilan

Nov W1	48892	255978	9587	43620	NA	3681	515	NA	NA	NA	15597
Nov W2	221291	398133	13286	415051	NA	44752	21147	810	NA	NA	141637
Nov W3	730543	123660	26928	651978	NA	115883	187550	1824	375	29580	144016
Nov W4	503106	32387	59628	1495656	NA	48997	279083	5865	24952	88564	163036
Dec W1	1177462	28190	111132	2016460	743	65161	440592	5121	187547	61502	266983
Dec W2	631147	96574	124668	510030	6225	59684	208530	4530	329236	57212	930966
Dec W3	114367	171738	133839	527840	15051	23001	183945	7908	164175	69929	484108
Dec W4	134563	49176	62652	774006	23596	5033	221997	7053	140501	277476	522063
Jan W1	428560	41229	170064	667711	15078	73746	65808	4890	242883	189366	526981
Jan W2	446248	48373	378542	413972	45564	107560	23139	9738	256820	181628	1542659
Jan W3	172469	64473	231965	201501	70462	265736	1140	46266	176499	410798	2039338
Jan W4	15311	35316	51900	150843	66347	50762	7443	42609	9890	839282	1515684
Feb W1	3113	73257	10374	413140	12792	13271	8289	63930	5810	563676	394377
Feb W2	NA	31652	12390	89649	5846	7606	8631	72117	NA	247842	380001
Feb W3	NA	31779	1323	13035	7474	NA	3291	91935	NA	13348	310636
Feb W4	NA	7335	654	4447	5510	NA	7305	70485	NA	5516	124542

<b>Year Week</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
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#### Hualien

Nov W1	NA	7850	123	4374	NA	1622	599	NA	NA	735	1224
Nov W2	NA	9960	507	9399	116	17412	3501	NA	NA	1394	4946
Nov W3	23990	45160	3305	67045	2330	60781	49966	58	1741	1484	29431
Nov W4	19985	45197	3793	72731	4687	55614	91659	62	8560	2630	64891

Dec W1	26070	25051	1345	114945	4750	34911	119937	765	24553	3994	74971
Dec W2	82980	12973	2317	105752	5178	27087	98071	3316	29731	5015	91024
Dec W3	63600	28711	2047	122704	5145	28968	84929	5359	32220	9726	65146
Dec W4	35410	32008	2104	142244	8281	18267	33029	3211	42560	12261	50391
Jan W1	26600	19414	4010	142469	8224	22363	26280	2843	36520	16027	45612
Jan W2	63720	4322	29972	117280	6558	48859	24754	2698	43764	15609	49840
Jan W3	54520	2444	54012	76284	5921	71023	15723	3445	53062	5339	122580
Jan W4	20775	814	50071	43096	6080	19289	6738	2885	15976	163720	65326
Feb W1	6870	5125	18823	18152	4464	10254	2714	5357	4624	223803	130974
Feb W2	1185	1866	11537	6805	2902	6054	1142	3959	1936	82895	146411
Feb W3	NA	1564	7695	2979	2650	1831	1176	8298	557	21916	50717
Feb W4	NA	2752	4297	1558	1774	901	902	38317	667	13157	20166
<b>Year Week</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Taitung</b>											
Nov W1	NA	NA	NA	1225	NA	389	307	NA	NA	63	NA
Nov W2	NA	NA	NA	1584	238	NA	12208	NA	NA	165	1156
Nov W3	NA	NA	NA	4165	983	5439	NA	109	NA	457	2508
Nov W4	NA	NA	NA	15421	1894	17854	42138	130	558	679	4990
Dec W1	NA	NA	NA	27324	1995	18655	120000	195	3915	712	8180
Dec W2	NA	NA	NA	23726	1238	12288	280000	652	5331	776	17587
Dec W3	NA	NA	NA	40340	1003	10927	300000	593	7852	1095	13791
Dec W4	NA	NA	NA	26437		8592	470000	573	6091	1396	16798
Jan W1	NA	NA	NA	31031	1592	6736	NA	613	8291	1694	18209
Jan W2	NA	NA	NA	29721	1388	6891	170000	484	9121	22005	15983
Jan W3	NA	NA	NA	12913	1686	12007	120000	925	9554	8987	15593
Jan W4	NA	NA	NA	10123	1773	10994	130000	596	7983	3785	29227
Feb W1	NA	NA	NA	6853	1329	8895	15000	818	5234	14181	19817
Feb W2	NA	NA	NA	6003	1068	6134	6000	615	2145	26333	19527
Feb W3	NA	NA	NA	4933	1129	1472	NA	705	188	10216	15897
Feb W4	NA	NA	NA	2775	1088	1220	NA	5498	NA	6019	10895