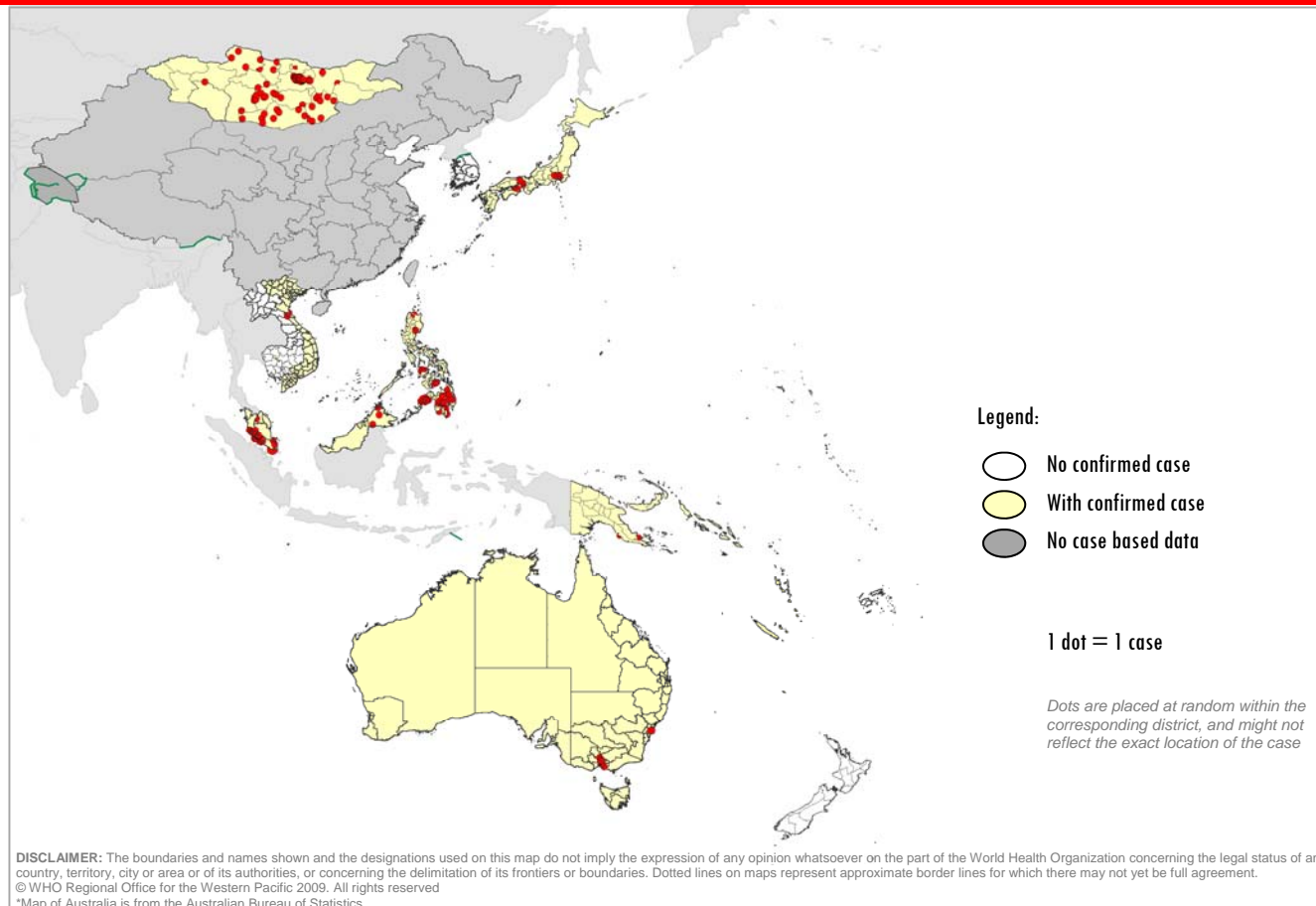


MEASLES-RUBELLA

Bulletin

Figure 1. Distribution of confirmed measles cases with rash onset 1–30 April 2015, WHO Western Pacific Region



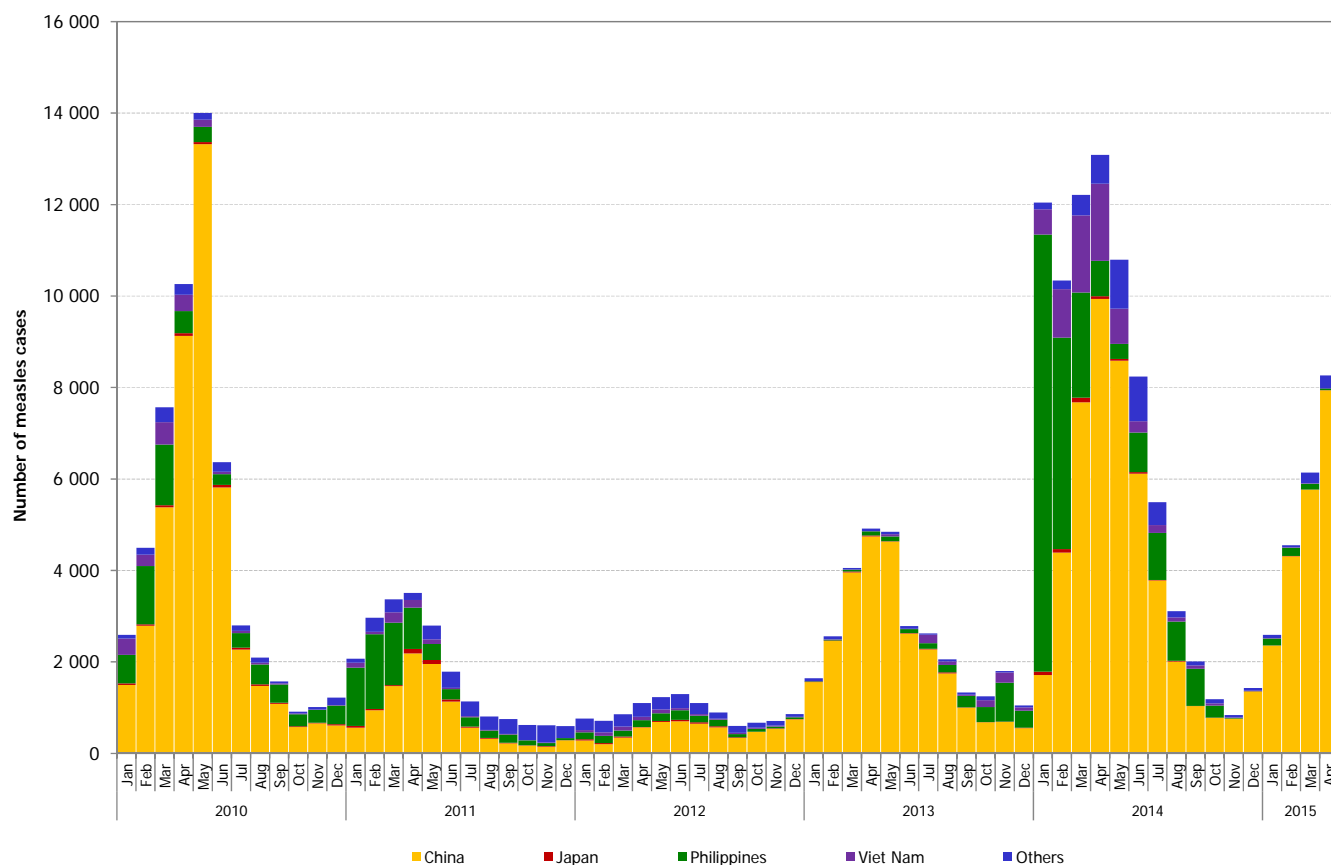
Source: Measles and rubella monthly country reports to the Western Pacific Regional Office by 20 May 2015

Table 1. Confirmed measles cases by month of onset, May 2014 – April 2015, WHO Western Pacific Region

Country	2014								2015			
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Australia	23	34	32	23	2	17	5	14	10	6	11	9
Brunei Darussalam	0	0	0	0	0	0	0	0	0	0	0	0
Cambodia	0	0	0	0	0	0	0	0	0	0	0	0
China	8587	6113	3779	2007	1033	778	755	1356	2359	4312	5767	7937
China, Hong Kong SAR	5	4	7	3	3	1	0	0	0	1	1	0
China, Macao SAR	0	1	0	0	0	0	0	0	0	0	0	0
Japan	37	38	12	19	5	2	6	2	1	2	3	8
Lao People's Democratic Republic	4	0	0	0	28	36	1	0	0	2	0	0
Malaysia	19	18	19	19	17	23	7	10	16	25	45	50
Mongolia	0	0	0	0	0	0	0	0	0	0	159	213
New Zealand	16	98	31	5	0	1	3	0	0	1	1	0
Papua New Guinea	777	640	259	64	29	10	37	31	34	4	7	2
Philippines	330	861	1031	857	811	263	16	3	150	184	125	36
Republic of Korea	204	44	25	3	2	1	0	0	0	0	4	0
Singapore	10	6	12	9	0	2	0	2	2	3	2	7
Viet Nam	767	252	170	93	77	50	9	9	14	7	9	1
Pacific island countries and areas	12	128	114	9	3	2	0	0	3	2	7	0
Western Pacific Region	10791	8237	5491	3111	2010	1186	839	1427	2589	4549	6141	8263

Source: Case based and aggregate data reports to the Western Pacific Regional Office by 20 May 2015

Figure 2. Measles cases by month of onset, WHO Western Pacific Region, 2010–2015¹



Source: Measles and rubella monthly country reports to WHO by 20 May 2015

¹ Includes laboratory confirmed, epi-linked and clinically confirmed cases for 2010–2012

Table 2. Status of measles verification, WHO Western Pacific Region

Countries and areas	Year verified	2014					2015				
		No. of confirmed cases	Source of infection				No. of confirmed cases	Source of infection			
			Imported	Import-related	Unknown	Endemic		Imported	Import-related	Unknown	Endemic
Australia	2014	340	139	101	100	0	36	15	9	12	0
Brunei Darussalam	2015	0	-	-	-	-	0	-	-	-	-
Cambodia	2015	0	-	-	-	-	0	-	-	-	-
China	-	48 123	0	0	48 123	0	20 375	0	0	20 375	0
China, Hong Kong SAR	-	46	18	3	0	25	2	1	0	1	0
China, Macao SAR	2014	1	1	0	0	0	0	-	-	-	-
Japan	2015	434	0	0	434	0	14	4	2	8	0
Lao People's Democratic Republic	-	70	0	0	70	0	2	0	0	2	0
Malaysia	-	213	51	14	51	97	136	2	0	78	56
Mongolia	2014	0	-	-	-	-	372	0	0	372	0
New Zealand	-	263	0	0	263	0	2	0	0	2	0
Papua New Guinea	-	2 589	0	0	2 589	0	47	0	0	47	0
Philippines	-	21 420	0	0	21 420	0	495	0	0	495	0
Republic of Korea	2014	442	21	407	14	0	4	1	0	3	0
Singapore	-	134	37	0	67	30	14	4	0	10	0
Viet Nam	-	6 498	0	0	6 498	0	31	0	0	31	0
Pacific island countries and areas	-	268	0	0	268	0	12	0	0	12	0
Total	-	80 841	267	525	79 897	152	21 542	27	11	21 448	56

Source: Measles and rubella monthly country reports to WHO by 20 May 2015

Table 3. Measles case classification and incidence by country and area, WHO Western Pacific Region, 2011–2015 ¹

Country	2011		2012		2013		2014		2015									Rash onset of last confirmed measles case	
	Total confirmed ²	Measles incidence per 1 million pop.	Total confirmed ²	Measles incidence per 1 million pop.	Total confirmed	Measles incidence per 1 million pop.	Total confirmed	Measles incidence per 1 million pop.	Population (in millions) ³	Suspected measles cases	Confirmed measles cases			Annualized measles incidence per 1 million pop.	Compatible cases	Discarded cases ⁵	Pending classification		Deaths due to measles
											Lab	Epi-linked	Confirmed						
Australia	192	8.5	199	8.7	154	6.6	340	14.5	22.6	NA ⁴	33	3	36	4.8	0	0	0	0	19-Apr-15
Brunei Darussalam	4	9.9	1	2.4	0	0.0	0	0.0	0.4	10	0	0	0	0.0	0	10	0	0	24-Jul-12
Cambodia	722	50.5	0	0.0	0	0.0	0	0.0	16.4	195	0	0	0	0.0	0	182	13	0	15-Nov-11
China	9 943	7.4	6 183	4.6	26 912	19.8	48 123	35.3	1 396.0	50 326	20 264	111	20 375	43.8	1 021	26 947	1 983	20	30-Apr-15
China, Hong Kong SAR	12	1.7	8	1.1	34	4.7	46	6.3	7.4	45	2	0	2	0.8	3	40	0	0	24-Mar-15
China, Macao SAR	1	1.8	1	1.8	3	5.2	1	1.7	0.6	3	0	0	0	0.0	0	3	0	0	3-Jun-14
Japan	411	3.2	228	1.8	141	1.1	434	3.4	125.8	109	12	2	14	0.3	6	89	0	0	23-Apr-15
Lao People's Democratic Republic	113	18.0	36	5.6	68	10.5	70	10.7	7.0	288	2	0	2	0.9	0	195	91	0	1-Feb-15
Malaysia	1 603	54.4	1 868	63.7	177	5.9	213	7.0	30.0	1 319	134	2	136	13.6	2	907	263	0	27-Apr-15
Mongolia	0	0.0	0	0.0	0	0.0	0	0.0	2.9	1 274	371	1	372	390.9	179	633	87	0	28-Apr-15
New Zealand	599	135.7	55	12.3	9	2.0	263	57.7	4.5	7	2	0	2	1.3	0	2	3	0	31-Mar-15
Papua New Guinea	0	0.0	0	0.0	7	1.0	2 589	345.9	7.7	107	47	0	47	18.4	0	60	0	0	19-Apr-15
Philippines	6 555	69.1	1 536	15.9	3 777	38.5	21 420	214.7	101.7	1 726	438	57	495	14.6	634	595	2	2	27-Apr-15
Republic of Korea	43	0.9	2	0.0	107	2.2	442	9.0	49.2	133	4	0	4	0.2	0	123	2	0	15-Mar-15
Singapore	143	27.6	40	7.6	56	10.6	134	25.1	5.1	37	14	0	14	8.3	2	19	1	0	24-Apr-15
Viet Nam	745	8.4	637	5.9	895	9.9	6 498	71.0	93.6	495	31	0	31	1.0	19	309	135	0	3-Apr-15
Pacific island countries and areas ⁶	2	1.0	0	0.0	0	0.0	268	81.9	3.3	81	12	0	12	11.0	0	66	3	0	28-Mar-15
Western Pacific Region	21 088	11.7	10 794	5.9	32 340	17.7	80 841	44.0	1 874.1	56 155	21 366	176	21 542	34.5	1 866	30 180	2 583	22	

¹ Includes all cases reported to the Western Pacific Regional Office by 20 May 2015.

² Includes laboratory confirmed, epi-linked and clinically confirmed cases for 2009 to 2012.

³ United Nations, Department of Economic and Social Affairs, Population Division World Population Prospects.

⁴ Australia reports confirmed cases only.

⁵ Excludes vaccine-associated cases

⁶ Classification is provisional based on laboratory data only.

Green	<1 confirmed measles case / 1 000 000 population
Yellow	1-9.9 confirmed measles case / 1 000 000 population
Red	>= 10 confirmed cases / 1 000 000 population

Table 4. Measles surveillance performance indicators by country and area, WHO Western Pacific Region, 2014–2015 ¹

Country	2014 ¹				2015 ¹			
	Discarded non-measles rate per 100 000 pop	Second level units with ≥ 2 discarded cases per 100 000 pop (annualized)	Suspected cases with adequate investigation	Suspected cases with adequate blood specimens ²	Annualized discarded non-measles rate per 100 000 pop	Second level units with ≥ 2 discarded cases per 100 000 pop (annualized)	Suspected cases with adequate investigation	Suspected cases with adequate blood specimens ²
	≥ 2	≥ 80%	≥ 80%	≥ 80%	≥ 2	≥ 80%	≥ 80%	≥ 80%
Australia ³	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data
Brunei Darussalam	3.5	100.0%	93.8%	100.0%	6.8	100.0%	100.0%	100.0%
Cambodia	4.3	83.3%	68.9%	99.4%	3.3	45.8%	73.3%	85.6%
China	4.3	71.0%	91.0%	87.6%	5.8	71.0%	91.4%	83.6%
China, Hong Kong SAR	2.1	100.0%	99.0%	92.8%	1.6	0.0%	93.3%	91.1%
China, Macao SAR	2.7	100.0%	100.0%	100.0%	1.6	0.0%	100.0%	100.0%
Japan	0.5	0.0%	Insufficient data	Insufficient data	0.2	0.0%	Insufficient data	Insufficient data
Lao People's Democratic Republic	4.1	58.8%	74.5%	74.9%	8.3	52.9%	84.4%	84.4%
Malaysia	14.3	93.8%	73.2%	91.1%	9.1	81.3%	76.2%	87.9%
Mongolia	4.7	31.8%	100.0%	100.0%	66.5	77.3%	82.9%	79.7%
New Zealand	1.0	Insufficient data	Insufficient data	Insufficient data	0.0	Insufficient data	Insufficient data	Insufficient data
Papua New Guinea	27.6	75.0%	0.0%	63.5%	2.3	20.0%	29.0%	82.2%
Philippines	3.3	58.8%	52.5%	82.0%	1.8	29.4%	66.5%	72.3%
Republic of Korea	2.4	43.8%	95.6%	63.3%	0.8	87.5%	72.2%	78.2%
Singapore	1.6	0.0%	82.5%	25.3%	1.1	0.0%	89.2%	21.6%
Viet Nam	3.2	40.6%	43.5%	82.0%	1.0	3.1%	42.0%	72.7%
Pacific island countries and areas	3.8	Insufficient data	Insufficient data	Insufficient data	6.1	Insufficient data	0.0%	76.5%
Western Pacific Region	4.1	54.9%	20.3%	84.9%	4.8	35.4%	89.3%	83.1%

¹ Includes all cases reported to the Western Pacific Regional Office by 20 May 2015.

² Excludes epidemiologically-linked cases.

³ Reports only confirmed cases.

Green	Reached or surpassed target
Yellow	Nearly reached target. 1.00–1.99 for non-measles suspected case rate; 10.1–25% for percent clinically confirmed cases; 60–79% for other indicators
Red	Substantially below target

Table 5. Rubella case classification and incidence by country and area, WHO Western Pacific Region, 2014–2015 ¹

Country	2014		2015 ¹									
	Total number of confirmed cases	Annualized rubella incidence per 1 million pop.	Population (in millions) ²	Investigated rubella cases	Confirmed rubella cases			Annualized rubella incidence per 1 million pop.	Compatible cases	Discarded cases ³	Pending classification	Congenital rubella syndrome
					Lab	Epi-linked	Total					
Australia	-	No data	22.61	No data	-	-	-	No data	-	-	-	-
Brunei Darussalam	0	0.0	0.44	10	0	0	0	0.0	0	10	0	-
Cambodia	30	2.0	16.36	195	2	0	2	0.4	0	180	0	-
China	11 887	8.7	1 396.00	50 326	-	-	4 604	9.9	0	0	0	-
China, Hong Kong SAR	1	0.1	7.40	3	1	0	1	0.4	0	0	1	-
China, Macao SAR	0	0.0	0.57	3	1	0	1	5.3	0	2	0	-
Japan	-	No data	125.79	No data	-	-	-	No data	-	-	-	-
Lao People's Democratic Republic	18	2.8	7.03	288	4	0	4	1.7	0	193	1	-
Malaysia	226	7.5	30.04	1 319	15	3	18	1.8	0	1 038	263	-
Mongolia	0	0.0	2.85	1 274	13	0	13	13.7	0	944	10	-
New Zealand	-	No data	4.49	No data	-	-	-	No data	-	-	-	-
Papua New Guinea	-	No data	7.68	No data	-	-	-	No data	-	-	-	-
Philippines	237	2.4	101.73	1 726	85	0	85	2.5	0	1 639	2	-
Republic of Korea	2	0.0	49.15	133	2	0	2	0.1	0	131	0	-
Singapore	0	0.0	5.06	8	0	0	0	0.0	0	6	0	-
Viet Nam	33	0.4	93.65	449	71	0	71	2.3	0	105	117	-
Pacific island countries and areas ⁴	4	1.2	3.26	81	0	0	0	0.0	0	80	1	-
Western Pacific Region	12 438	6.8	1 874.11	55 815	194	3	4 801	7.7	0	4 328	395	0

¹ Includes all cases reported to the Western Pacific Regional Office by 20 May 2015.

² United Nations, Department of Economic and Social Affairs, Population Division World Population Prospects.

³ Excludes vaccine-associated cases

⁴ Classification is provisional based on laboratory data only.

Green	<1 confirmed measles case / 1 000 000 population
Yellow	1-9.9 confirmed measles case / 1 000 000 population
Red	>= 10 confirmed cases / 1 000 000 population
Gray	No data

Table 6A. Measles and rubella laboratory testing, WHO Western Pacific Region, 2014¹

Country	Laboratory	Measles and rubella			Measles													Rubella			
					Serology						Virus detection				Total number of lab confirmed cases	Serum and blood (includes DBS)					
		Serum			Blood		Timeliness of reults		Measles Virus isolation/detection (swab, urine and others)		Measles Reverse Transcription Polymerase Chain Reaction		Samples tested for rubella IgM	Rubella IgM (+)		Rubella IgM equiv					
		Samples tested for measles IgM	Measles IgM (+)		Measles IgM equiv	DBS samples		≤4 days ²	≤7 days	No. of samples tested		No. of isolates		No. of samples tested			No. (+)	No.	No.	%	No.
No.	No.	%	No.	No. received	No. (+)	%	%	No. of samples tested	No. of isolates	No. of samples tested	No. (+)	No.	No.	%	No.						
Australia	VIDRL	312	312	226	66	42	63.6	3	0	-	100.0	100.0	0	-	258	236	207	24	0	0.0	0
Brunei Darussalam	DLS	51	51	51	51	1	2.0	0	0	-	71.2	98.1	0	-	0	-	1	52	2	3.8	0
Cambodia	NIPH	635	635	635	577	0	0.0	0	58	0	98.6	100.0	0	-	0	-	0	604	31	5.1	0
China ³	CCDC	NA	105 219	105 167	105 219	45 751	43.5	NA	NA	-	81.0	NA	NA	7 863	0	-	NA	NA	NA	NA	NA
China, Hong Kong SAR	PHLC	791	791	665	698	34	4.9	21	0	-	93.6	98.9	39	28	204	58	49	645	8	1.2	5
China, Macao SAR	PHLC	58	58	58	58	1	1.7	0	0	-	100.0	100.0	0	-	1	1	1	57	0	0.0	0
Japan	NIID	2 396	854	854	362	172	47.5	15	0	-	No data	No data	9	9	780	365	190	11	2	18.2	0
Lao People's Democratic Republic	NCLE	370	370	369	370	74	20.0	9	0	-	92.6	99.7	0	-	0	-	74	366	11	3.0	28
Malaysia	NPHL	5 789	5 789	5 134	4 751	257	5.4	100	0	-	67.5	90.2	997	6	0	-	261	4 434	220	5.0	87
Mongolia	NCCD	138	138	137	137	0	0.0	0	0	-	99.3	99.3	0	-	0	-	0	137	1	0.7	1
New Zealand	CHL	787	787	704	249	45	18.1	5	0	-	98.6	99.0	15	8	519	162	181	103	4	3.9	1
Papua New Guinea	CPHL	4 595	4 595	4 591	4 583	2 270	49.5	316	0	-	67.7	88.7	0	-	37	32	2 266	2 270	89	3.9	93
Philippines	RITM	41 235	19 297	19 151	18 766	12 736	67.9	665	364	187	0.3	1.3	1 247	444	830	760	13 431	5 870	235	4.0	104
Republic of Korea	KCDC	2 609	2 609	1 873	1 324	270	20.4	115	0	-	75.1	89.7	332	231	1 440	328	469	770	28	3.6	39
Singapore	SGH	675	675	619	222	41	18.5	13	0	-	93.6	96.9	170	6	0	-	47	278	9	3.2	4
Viet Nam (central)	Nha Trang	1 800	1 800	1 800	1 736	999	57.5	30	0	-	72.6	90.5	0	-	99	50	1 023	780	6	0.8	3
Viet Nam (highland)	IHE	483	483	483	482	266	55.2	3	0	-	35.6	51.5	0	-	0	-	266	425	1	0.2	0
Viet Nam (northern)	NIHE	4 804	4 804	4 763	4 650	2 636	56.7	261	0	-	61.6	84.6	130	5	131	16	2 648	2 196	18	0.8	21
Viet Nam (southern)	PI	12 684	12 684	11 444	11 342	6 917	61.0	142	0	-	12.0	18.4	1 342	134	1 343	16	6 924	4 637	20	0.4	11
Fiji	FCCDC	131	131	131	112	0	0.0	0	19	1	83.3	95.0	0	-	0	-	1	128	3	2.3	0
Vanuatu	FFCDC	13	13	13	13	4	30.8	2	0	-	91.7	100.0	0	-	0	-	4	13	1	7.7	3
Total		80 356	162 095	158 868	155 768	72 516	46. 6	1 700	441	188	31.3	40.7	4 281	8 734	5 642	2 024	28 043	23 800	689	2.9	400

¹ Includes all cases reported to the Western Pacific Regional Office by 20 January 2015.

² Recommendation from the Fourth Meeting on Vaccine Preventable Diseases Laboratory Networks in the Western Pacific Region

³ China Measles Surveillance System (MSS) and China Measles LabNet

NA - not available

Table 6B. Measles and rubella laboratory testing, WHO Western Pacific Region, 2015¹

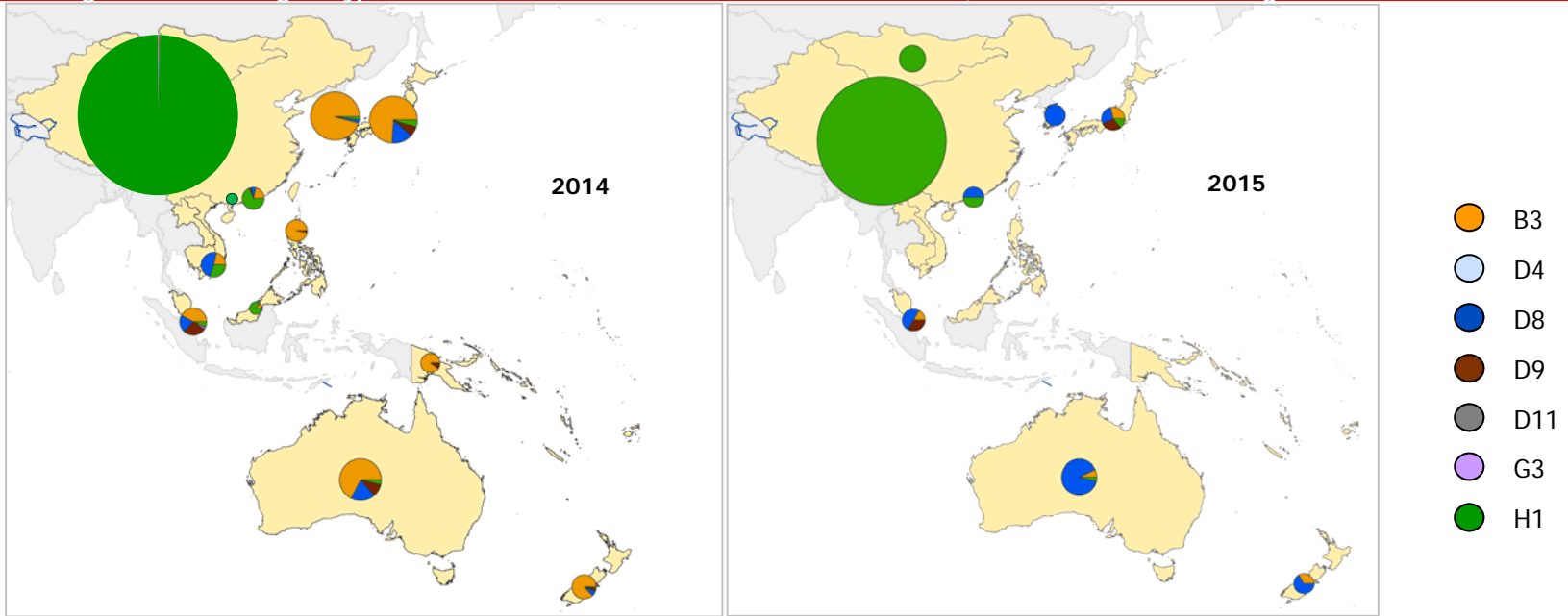
Country	Laboratory	Measles and rubella			Measles													Rubella			
					Serology						Virus detection							Serum and blood (includes DBS)			
		Total number of samples received	Total number of samples tested	Total number of cases tested	Serum			Blood		Timeliness of reults		Measles Virus isolation/detection (swab, urine and others)		Measles Reverse Transcription Polymerase Chain Reaction			Total number of lab confirmed cases	Samples tested for rubella IgM	Rubella IgM (+)		Rubella IgM equiv
					Samples tested for measles IgM	Measles IgM (+)	Measles IgM equiv	DBS samples	≤4 days ²	≤7 days	No. of samples tested	No. of isolates	No. of samples tested	No. (+)	No.	No.			%	No.	
No.	No.	%	No.	No. received	No. (+)	%	%	No. of samples tested	No. of isolates	No. of samples tested	No. (+)	No.	No.	%	No.						
Australia	VIDRL	54	54	34	15	12	80.0	1	0	-	100.0	100.0	0	-	41	40	34	1	0	-	0
Brunei Darussalam	DLS	14	14	14	14	0	0.0	0	0	-	100.0	100.0	0	-	0	-	0	14	0	0.0	0
Cambodia	NIPH	194	194	194	167	0	0.0	0	27	0	100.0	100.0	0	-	0	-	0	194	2	1.0	0
China ³	CCDC										91.2										
China, Hong Kong SAR	PHLC	163	163	142	148	4	2.7	0	0	-	98.6	99.3	1	1	11	3	4	139	3	2.2	0
China, Macao SAR	PHLC	16	16	16	16	0	0.0	2	0	-	100.0	100.0	0	-	0	-	0	16	1	6.3	1
Japan	NIID	161	136	109	33	5	15.2	6	0	-	No data	No data	0	-	63	10	13	0	-	-	-
Lao People's Democratic Republic	NCLE	149	149	149	149	2	1.3	5	0	-	91.9	92.6	0	-	0	-	2	146	8	5.5	14
Malaysia	NPHL	1 571	1 571	1 410	1 334	199	14.9	39	0	-	75.3	83.6	197	0	0	-	199	1 094	22	2.0	17
Mongolia	NCCD	1 144	1 144	1 144	1 144	378	33.0	93	0	-	99.0	100.0	0	-	103	43	388	1 025	16	1.6	8
New Zealand	CHL	110	110	92	42	2	4.8	0	0	-	97.6	100.0	0	-	60	3	4	21	0	0.0	0
Papua New Guinea	CPHL	133	133	133	133	46	34.6	14	0	-	59.1	92.1	0	-	0	-	44	13	1	-	0
Philippines	RITM	1 235	1 235	1 204	1 174	492	41.9	52	24	7	65.2	98.4	27	7	0	-	493	693	55	7.9	40
Republic of Korea	KCDC	278	278	197	170	7	4.1	6	0	-	97.4	100.0	0	-	110	4	9	94	1	1.1	4
Singapore	SGH	189	186	173	37	4	10.8	0	0	-	97.7	99.2	39	4	0	0	4	91	1	1.1	0
Viet Nam (central)	Nha Trang	73	73	73	72	4	5.6	1	0	-	91.7	98.6	0	-	0	-	4	72	5	6.9	1
Viet Nam (highland)	IHE	13	13	13	13	7	53.8	0	0	-	92.3	92.3	0	-	1	0	7	13	0	0.0	0
Viet Nam (northern)	NIHE	81	81	81	81	20	24.7	4	0	-	100.0	100.0	0	-	0	-	20	67	5	7.5	3
Viet Nam (southern)	PI	357	357	325	325	37	11.4	3	0	-	95.7	99.7	32	0	32	0	37	325	127	39.1	6
Fiji	FCCDC	75	75	75	74	9	12.2	2	1	0	No data	No data	0	-	0	-	0	75	0	0.0	1
Total		6 010	5 982	5 578	5 141	1 228	23.9	228	52	7	83.2	94.7	296	12	421	103	1 262	4 093	247	6.0	95

¹ Includes all cases reported to the Western Pacific Regional Office by 20 May 2015

² Recommendation from the Fourth Meeting on Vaccine Preventable Diseases Laboratory Networks in the Western Pacific Region

³ National measles laboratory report is not available

Figure 3. Measles genotype distribution of cases with onset in 2014 and 2015, WHO Western Pacific Region



The boundaries and names shown and the designations used on the maps do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.
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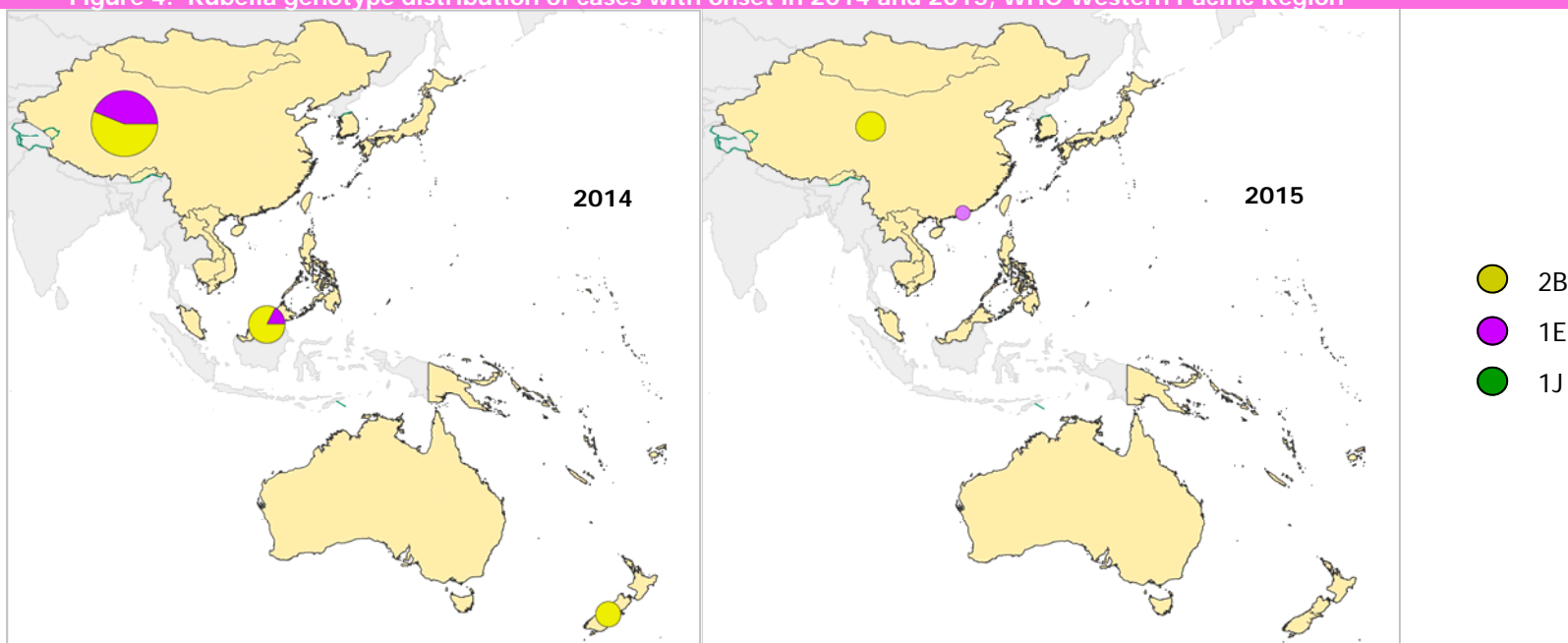
* Size of the pie chart is proportional to the number of genotypes reported by the country

Table 7. Measles genotype distribution of cases with onset in May 2014 to April 2015, WHO Western Pacific Region

Country	2014																2015																															
	May				Jun				Jul				Aug				Sep				Oct				Nov				Dec				Jan				Feb				Mar				Apr			
	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1				
Australia	10	3	5		14	7	1	1	9	4	1	3	2	9		1	1				2	2	4		2								10				3				2	3		1	9			
Brunei Darussalam																																																
Cambodia																																																
China		1	1	728		3	576			1	302				188				85				74				48				137				376				294				61					
Hong Kong (China)				4		2	2				6				3				3	1																			1		1							
Macao (China)								1																																								
Japan	14	12		4	13		7		1	5			5	3									3						1																2	2		2
Lao People's Democratic Republic																																																
Malaysia								1																																								
Mongolia																																												11				
New Zealand	6				6				3	1					1				1				2												1													
Papua New Guinea	4																																															
Philippines																																																
Republic of Korea	114	4			63		2	29			2	2			1				1				1												1				1									
Singapore		2		1	1				4		1	1	1	1	3	1													1	1					1	2								2				
Viet Nam															1				3									10			1																	
Pacific island countries and areas ⁴																																																

Sources: Includes all cases reported to the Western Pacific Regional Office by 20 May 2015 and the Measles Nucleotide Sequence online database (MeaNS).

Figure 4. Rubella genotype distribution of cases with onset in 2014 and 2015, WHO Western Pacific Region



The boundaries and names shown and the designations used on the maps do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.
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* Size of the pie chart is proportional to the number of genotypes reported by the country

Table 8. Rubella genotype distribution of cases with onset in May 2014 to April 2015, WHO Western Pacific Region

Country	2014												2015																							
	May			Jun			Jul			Aug			Sep			Oct			Nov			Dec			Jan			Feb			Mar			Apr		
	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J			
Australia																																				
Brunei Darussalam																																				
Cambodia																																				
China	1			2					1						1											3						1				
Hong Kong (China)	1								1																									1		
Macao (China)																																				
Japan																																				
Lao People's Democratic Republic																																				
Malaysia																																				
Mongolia																																				
New Zealand						1																														
Papua New Guinea																																				
Philippines																																				
Republic of Korea																																				
Singapore																																				
Viet Nam																																				
Pacific island countries and areas ⁴																																				

Sources: Includes all cases reported to the Western Pacific Regional Office by 20 May 2015

Table 9A. Completeness and timeliness of epidemiologic reporting, WHO Western Pacific Region, 2013–2015

Country	2013		2014		2015 ¹				Completeness ²	Timeliness ³
	Completeness	Timeliness	Completeness	Timeliness	Jan	Feb	Mar	Apr		
					10 Feb	10 Mar	10 Apr	10 May		
Australia	100%	100%	100%	92%	09 Feb	06 Mar	02 Apr	05 May	100%	100%
Brunei Darussalam	100%	100%	100%	100%	07 Feb	09 Mar	09 Apr	07 May	100%	100%
Cambodia	100%	100%	100%	100%	10 Feb	10 Mar	10 Apr	10 May	100%	100%
China	100%	83%	100%	67%	25 Feb	15 Mar	10 Apr	15 May	100%	75%
China, Hong Kong SAR	100%	100%	100%	100%	10 Feb	10 Mar	10 Apr	08 May	100%	100%
China, Macao SAR	100%	100%	100%	100%	04 Feb	10 Mar	01 Apr	08 May	100%	100%
Japan	100%	83%	100%	17%	07 Feb	10 Mar	09 Apr	10 May	100%	100%
Lao People's Democratic Republic	100%	100%	100%	100%	10 Feb	10 Mar	10 Apr	10 May	100%	100%
Malaysia	100%	100%	100%	92%	09 Feb	10 Mar	06 Apr	10 May	100%	100%
Mongolia	100%	100%	100%	100%	10 Feb	09 Mar	10 Apr	10 May	100%	100%
New Zealand	100%	92%	100%	100%	03 Feb	03 Mar	10 Apr	07 May	100%	100%
Papua New Guinea	100%	92%	92%	58%	10 Feb	11 Mar	08 Apr	06 May	100%	75%
Philippines	100%	100%	100%	100%	06 Feb	09 Mar	10 Apr	08 May	100%	100%
Republic of Korea	100%	100%	100%	100%	04 Feb	06 Mar	07 Apr	05 May	100%	100%
Singapore	100%	100%	100%	92%	10 Feb	04 Mar	10 Apr	09 May	100%	100%
Viet Nam	100%	100%	100%	100%	10 Feb	03 Mar	10 Apr	10 May	100%	100%
Pacific island countries and areas	100%	100%	100%	100%	04 Feb	05 Mar	10 Apr	05 May	100%	100%
Completeness	100%		100%		100%	100%	100%	100%	100%	
Timeliness		97%		90%	94%	94%	100%	100%		97%

¹ National measles surveillance monthly reports from April 2015.

Legend: black = timely report; red = untimely report

² Completeness is defined as the number of reports received by the end of the reporting month divided by the number of expected reports for the year.

³ Countries and areas should submit reports by the 10th (or the next working day) of the following month; Pacific island countries and areas and China may report to the Regional Office by the 15th (or the next working day) of the following month.

Table 9B. Completeness and timeliness of laboratory reporting, WHO Western Pacific Region, 2013–2015

Country	2013		2014		2015 ¹				Completeness ²	Timeliness ³
	Completeness	Timeliness	Completeness	Timeliness	Jan	Feb	Mar	Apr		
					10 Feb	10 Mar	10 Apr	10 May		
Australia	100%	100%	100%	100%	05 Feb	02 Mar	02 Apr	04 May	100%	100%
Brunei Darussalam	100%	78%	100%	100%	07 Feb	28 Feb	06 Apr	30 Apr	100%	100%
Cambodia	100%	100%	100%	100%	10 Feb	10 Mar	10 Apr	10 May	100%	100%
China	100%	100%	100%	100%	02 Feb	02 Mar	08 Apr	07 May	100%	100%
China, Hong Kong SAR	100%	100%	100%	100%	06 Feb	06 Mar	08 Apr	08 May	100%	100%
China, Macao SAR	100%	100%	100%	100%	04 Feb	10 Mar	01 Apr	08 May	100%	100%
Japan	100%	100%	100%	42%	07 Feb	10 Mar	09 Apr	10 May	100%	100%
Lao People's Democratic Republic	92%	92%	100%	100%	10 Feb	10 Mar	10 Apr	10 May	100%	100%
Malaysia	100%	100%	100%	83%	09 Feb	10 Mar	08 Apr	08 May	100%	100%
Mongolia	100%	100%	100%	100%	09 Feb	05 Mar	10 Apr	15 May	100%	75%
New Zealand	100%	100%	100%	100%	09 Feb	09 Mar	10 Apr	07 May	100%	100%
Papua New Guinea	83%	83%	100%	92%	11 Feb	17 Mar	07 Apr	08 May	100%	50%
Philippines	100%	100%	100%	92%	10 Feb	09 Mar	08 Apr	06 May	100%	100%
Republic of Korea	100%	100%	100%	100%	09 Feb	09 Mar	10 Apr	07 May	100%	100%
Singapore	100%	100%	100%	100%	09 Feb	07 Mar	08 Apr	08 May	100%	100%
Viet Nam (central)			82%	73%	11 Feb	16 Mar	04 Apr	15 May	100%	25%
Viet Nam (highlands)			91%	82%	11 Feb	16 Mar	04 Apr	15 May	100%	25%
Viet Nam (northern)	100%	50%	100%	83%	11 Feb	16 Mar	04 Apr	15 May	100%	25%
Viet Nam (southern)	100%	67%	100%	100%	09 Feb	10 Mar	08 Apr	07 May	100%	100%
Fiji	100%	100%	100%	100%	04 Feb	05 Mar	10 Apr	05 May	100%	100%
Completeness	99%		99%		100%	100%	100%	100%	100%	
Timeliness		92%		92%	89%	80%	100%	80%		85%

¹ National measles laboratory monthly reports from April 2015.

Legend: black = timely report; red = untimely report

² Completeness is defined as the number of reports received by the end of the reporting month divided by the number of expected reports for the year.

³ National measles and rubella laboratories should submit monthly reports by the 10th (or the next working day) of the following month.

**Expanded Programme on Immunization
Regional Office for the Western Pacific
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Please send your comments and monthly data before the 10th of the month to:
WPR_EPIdata@wpro.who.int