

Predicción IPC para los próximos 10 meses

1 Predicciones

Año	Mes	República	Región I	Región II	Región III	Región IV	Región V	Región VI	Región VII	Región VIII
2023	Diciembre	175.27	149.77	247.87	169.7	247.98	159.96	161.0	240.1	170.92
2024	Enero	175.99	150.53	247.87	170.7	249.3	160.49	161.74	241.34	170.92
2024	Febrero	176.71	151.29	247.87	171.7	250.37	161.01	162.49	242.58	170.92
2024	Marzo	177.42	152.06	247.87	172.71	251.62	161.53	163.23	243.81	170.92
2024	Abril	178.14	152.82	247.87	173.71	252.68	162.05	163.98	245.05	170.92
2024	Mayo	178.86	153.58	247.87	174.71	253.96	162.57	164.73	246.28	170.92
2024	Junio	179.57	154.34	247.87	175.72	255.01	163.09	165.47	247.52	170.92
2024	Julio	180.29	155.1	247.87	176.72	256.28	163.6	166.22	248.75	170.92
2024	Agosto	181.01	155.86	247.87	177.73	257.33	164.12	166.96	249.99	170.92
2024	Septiembre	181.73	156.62	247.87	178.73	258.6	164.64	167.71	251.22	170.92

2 Gráficas

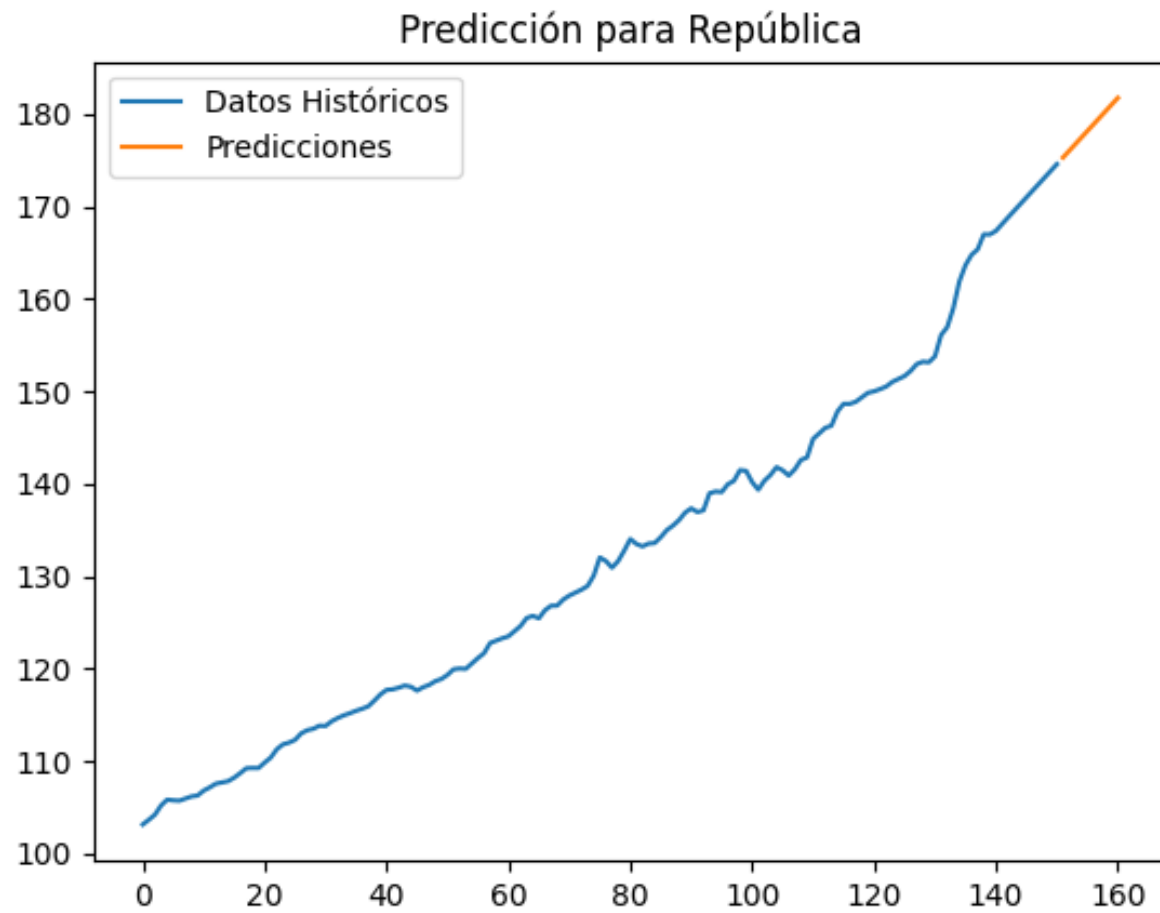


Figure 1: Gráfica de República

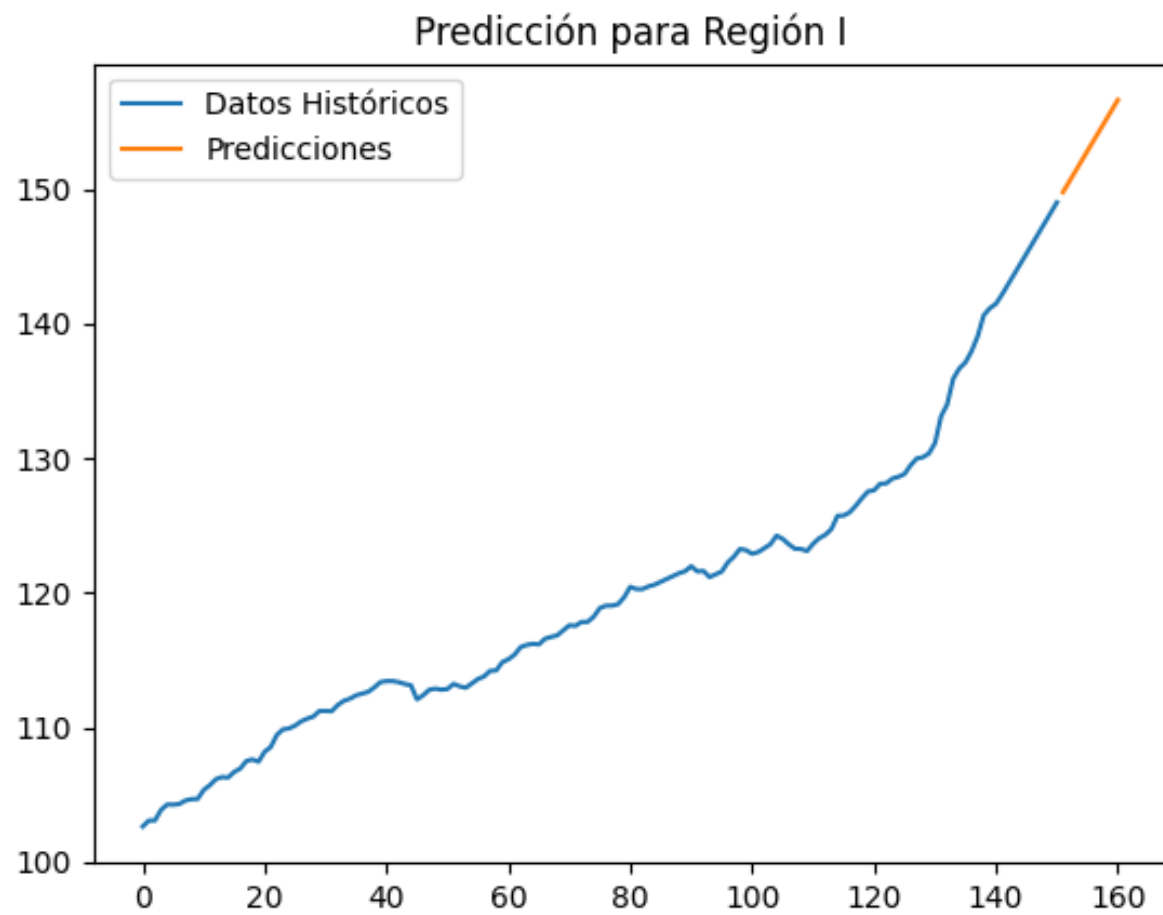


Figure 2: Gráfica de Región I

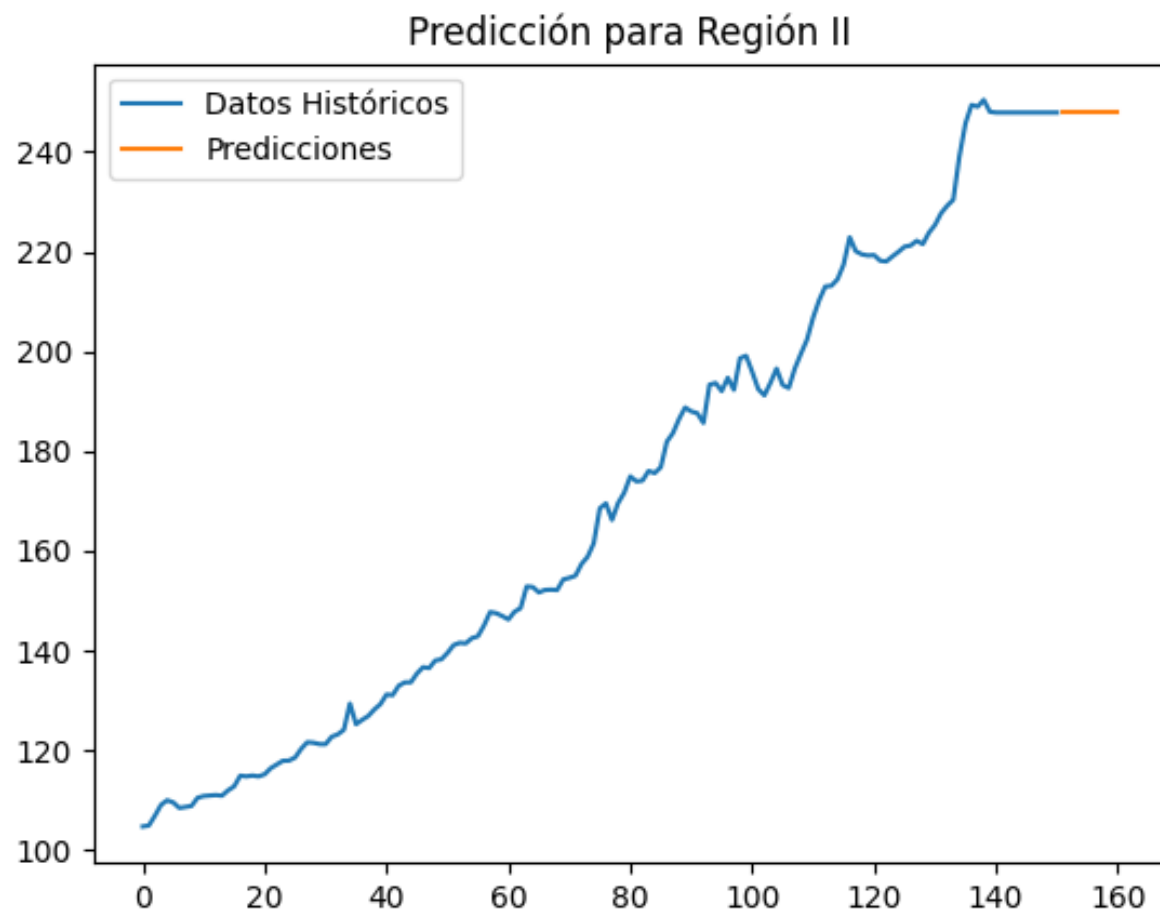


Figure 3: Gráfica de Región II

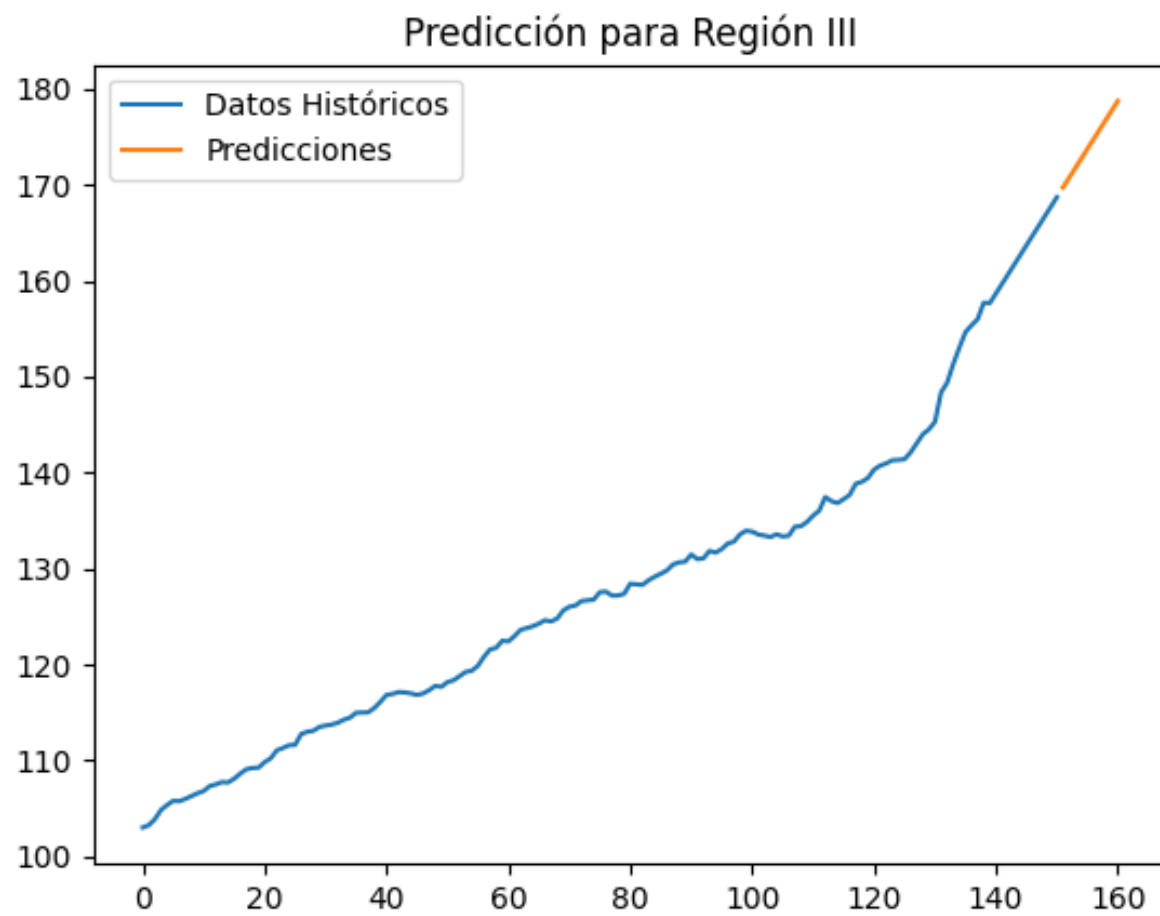


Figure 4: Gráfica de Región III

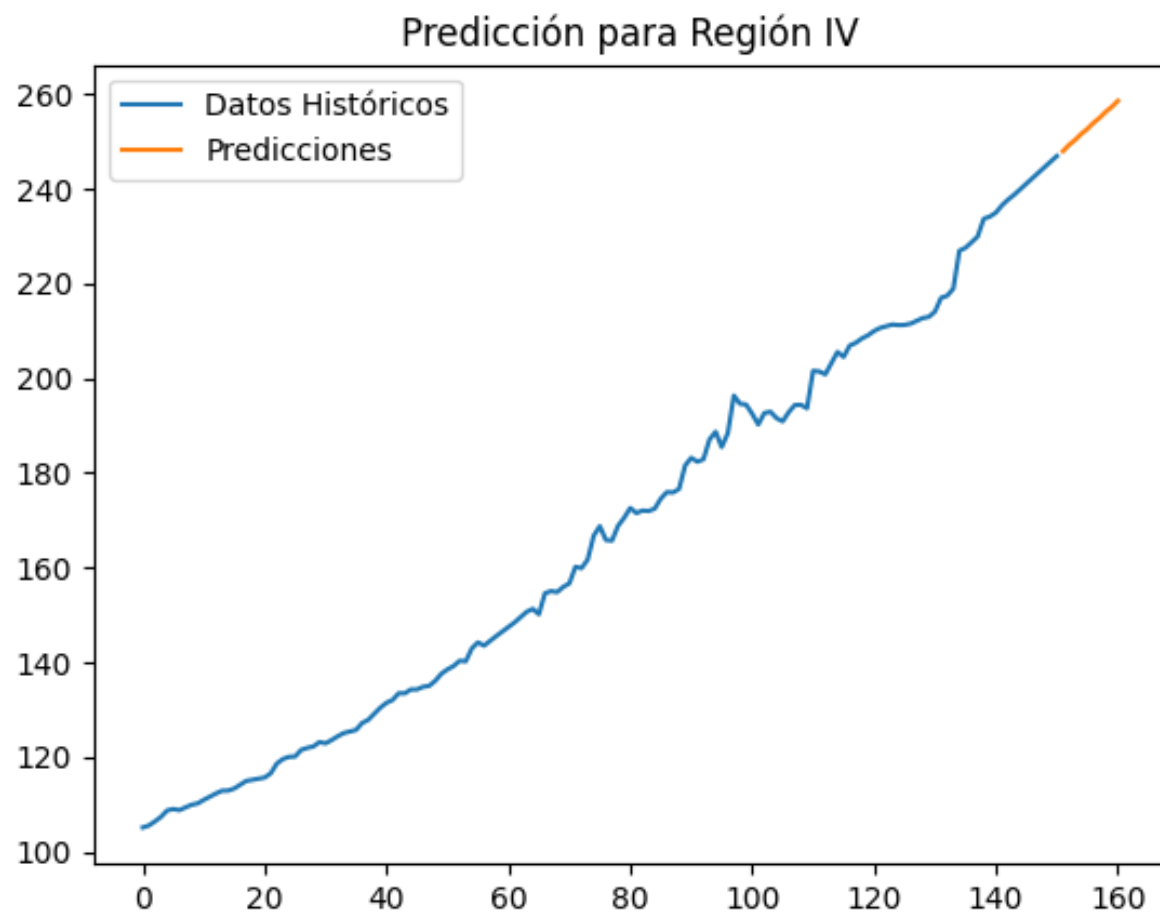


Figure 5: Gráfica de Región IV

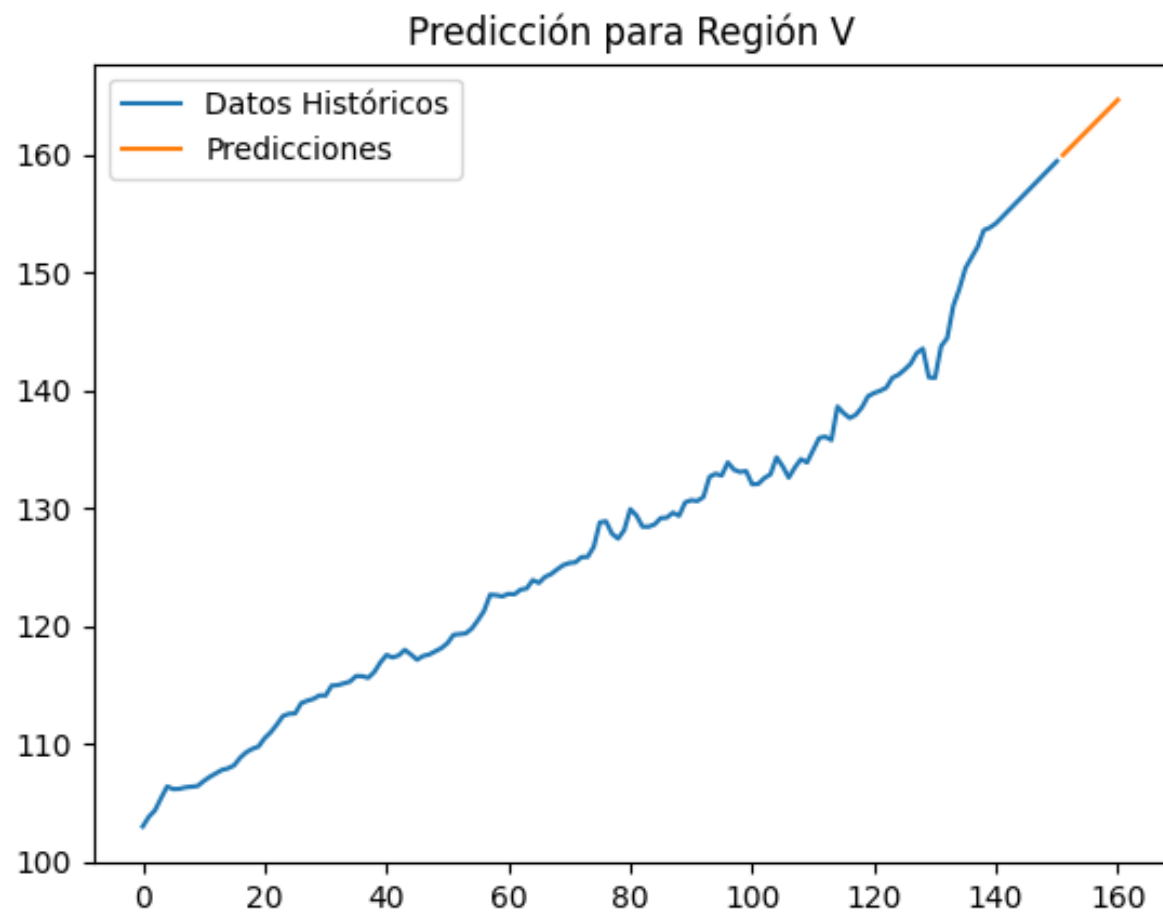


Figure 6: Gráfica de Región V

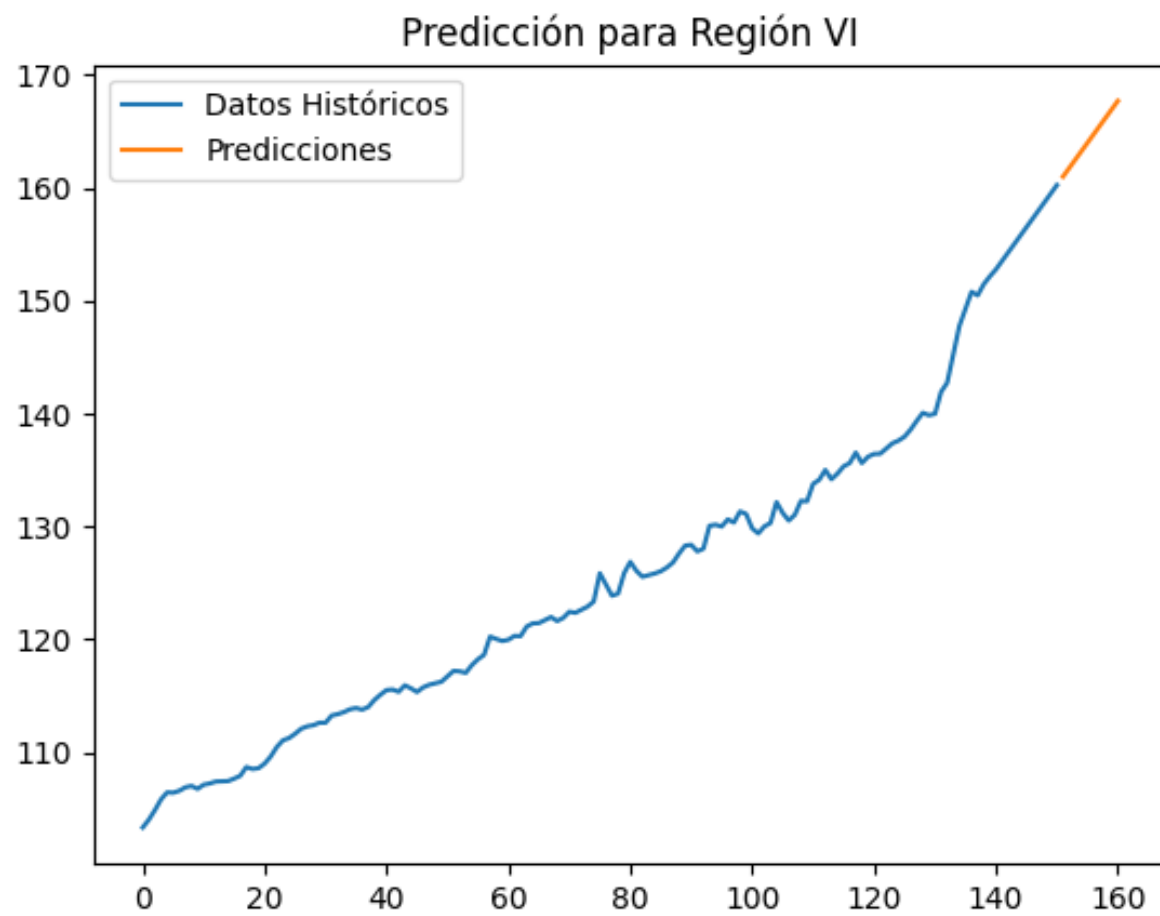


Figure 7: Gráfica de Región VI

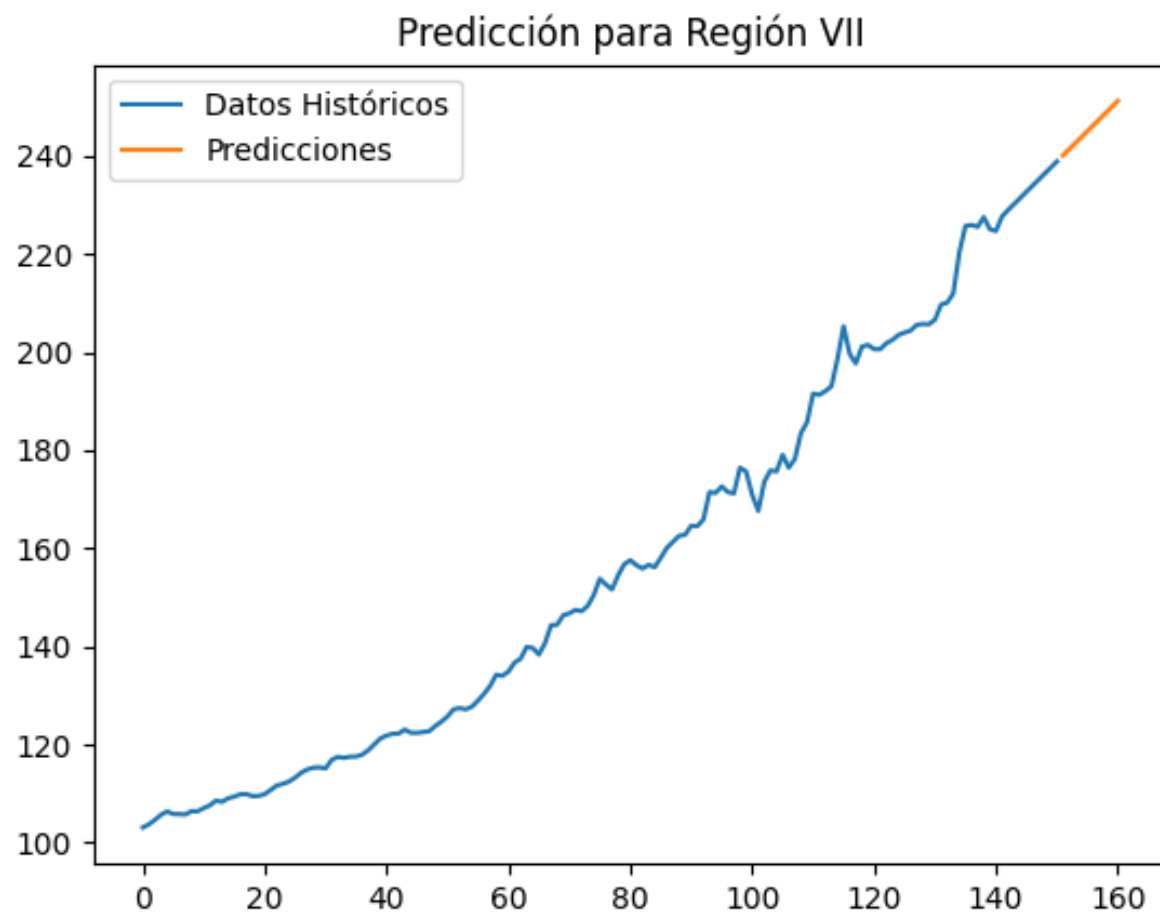


Figure 8: Gráfica de Región VII

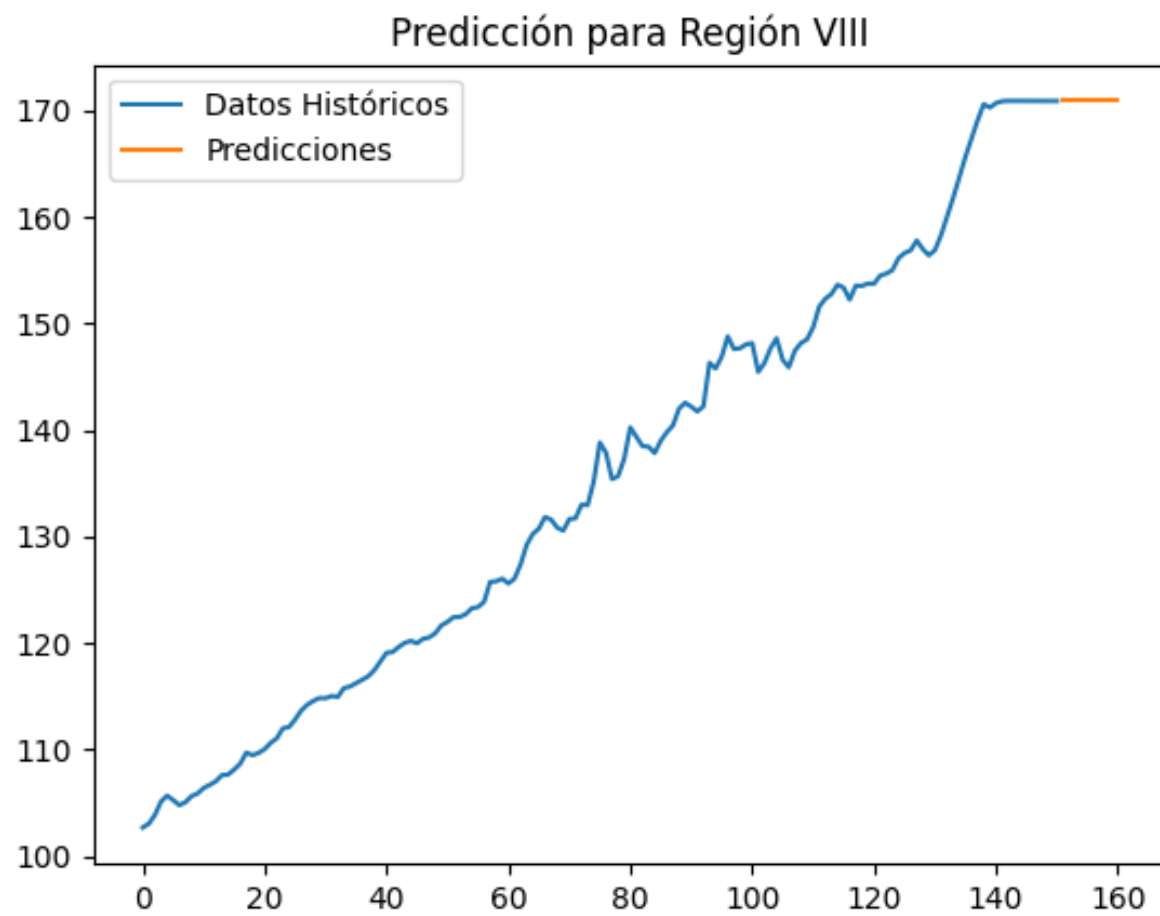


Figure 9: Gráfica de Región VIII

3 Tablas de resumen

República

			Dep. Variable:		República		No. Observations:		151		
			Model:		ARIMA(0, 2, 2)		Log Likelihood		-115.374		
			Date:		Wed, 22 Nov 2023		AIC		236.749		
			Time:		11:38:27		BIC		245.761		
			Sample:		0		HQIC		240.410		
					- 151						
			Covariance Type:		opg						
	coef	std err	z	P> z	[0.025	0.975]	Ljung-Box (L1) (Q):	0.23	Jarque-Bera (JB):	50.50	
ma.L1	-0.5959	0.050	-11.829	0.000	-0.695	-0.497	Prob(Q):	0.63	Prob(JB):	0.00	
ma.L2	-0.3491	0.061	-5.702	0.000	-0.469	-0.229	Heteroskedasticity (H):	6.78	Skew:	0.74	
sigma2	0.2717	0.021	12.960	0.000	0.231	0.313	Prob(H) (two-sided):	0.00	Kurtosis:	5.43	

Warnings:

[1] Covariance matrix calculated using the outer product of gradients (complex-step).

Región I

		Dep. Variable:		Región I		No. Observations:		151		
		Model:		ARIMA(1, 2, 1)		Log Likelihood		-48.876		
		Date:		Wed, 22 Nov 2023		AIC		103.753		
		Time:		11:38:27		BIC		112.765		
		Sample:		0		HQIC		107.414		
				- 151						
		Covariance Type:		opg						
	coef	std err	z	P> z	[0.025	0.975]	Ljung-Box (L1) (Q):	0.01	Jarque-Bera (JB):	91.29
ar.L1	0.1670	0.106	1.572	0.116	-0.041	0.375	Prob(Q):	0.93	Prob(JB):	0.00
ma.L1	-0.8758	0.043	-20.582	0.000	-0.959	-0.792	Heteroskedasticity (H):	1.78	Skew:	0.80
sigma2	0.1120	0.009	11.969	0.000	0.094	0.130	Prob(H) (two-sided):	0.04	Kurtosis:	6.49

Warnings:

[1] Covariance matrix calculated using the outer product of gradients (complex-step).

Región II

							Dep. Variable:	Región II	No. Observations:	151
							Model:	ARIMA(0, 1, 1)	Log Likelihood	-327.638
							Date:	Wed, 22 Nov 2023	AIC	659.275
							Time:	11:38:27	BIC	665.297
							Sample:	0	HQIC	661.722
								- 151		
							Covariance Type:	opg		
	coef	std err	z	P> z 	[0.025	0.975]	Ljung-Box (L1) (Q):	2.18	Jarque-Bera (JB):	66.76
ma.L1	0.2490	0.063	3.942	0.000	0.125	0.373	Prob(Q):	0.14	Prob(JB):	0.00
sigma2	4.6190	0.337	13.704	0.000	3.958	5.280	Heteroskedasticity (H):	2.52	Skew:	0.78
							Prob(H) (two-sided):	0.00	Kurtosis:	5.88

Warnings:

[1] Covariance matrix calculated using the outer product of gradients (complex-step).

Región III

							Dep. Variable:	Región III	No. Observations:	151
							Model:	ARIMA(1, 2, 2)	Log Likelihood	-82.051
							Date:	Wed, 22 Nov 2023	AIC	172.103
							Time:	11:38:28	BIC	184.119
							Sample:	0	HQIC	176.985
								- 151		
							Covariance Type:	opg		
	coef	std err	z	P> z 	[0.025	0.975]	Ljung-Box (L1) (Q):	0.30	Jarque-Bera (JB):	325.47
ar.L1	-0.8519	0.084	-10.185	0.000	-1.016	-0.688	Prob(Q):	0.58	Prob(JB):	0.00
ma.L1	0.0989	0.060	1.653	0.098	-0.018	0.216	Heteroskedasticity (H):	3.81	Skew:	1.31
ma.L2	-0.8030	0.060	-13.376	0.000	-0.921	-0.685	Prob(H) (two-sided):	0.00	Kurtosis:	9.75
sigma2	0.1744	0.011	15.566	0.000	0.152	0.196				

Warnings:

[1] Covariance matrix calculated using the outer product of gradients (complex-step).

Región IV

			<div>Dep. Variable: Región IV</div> <div>Model: ARIMA(4, 1, 2)</div> <div>Date: Wed, 22 Nov 2023</div> <div>Time: 11:38:28</div> <div>Sample: 0</div> <div></div> <div>- 151</div> <div>Covariance Type: opg</div>				<div>No. Observations: 151</div> <div>Log Likelihood -273.508</div> <div>AIC 561.016</div> <div>BIC 582.091</div> <div>HQIC 569.578</div>			
	coef	std err	z	P> z	[0.025	0.975]				
ar.L1	-0.0894	0.097	-0.918	0.358	-0.280	0.101				
ar.L2	0.6457	0.077	8.338	0.000	0.494	0.798	Ljung-Box (L1) (Q):	0.04	Jarque-Bera (JB):	284.97
ar.L3	0.0889	0.080	1.105	0.269	-0.069	0.246	Prob(Q):	0.84	Prob(JB):	0.00
ar.L4	0.3527	0.063	5.598	0.000	0.229	0.476	Heteroskedasticity (H):	11.31	Skew:	1.39
ma.L1	0.0339	0.173	0.196	0.844	-0.304	0.372	Prob(H) (two-sided):	0.00	Kurtosis:	9.15
ma.L2	-0.9592	0.157	-6.126	0.000	-1.266	-0.652				
sigma2	2.1923	0.294	7.450	0.000	1.616	2.769				

Warnings:

[1] Covariance matrix calculated using the outer product of gradients (complex-step).

Región V

							Dep. Variable:	Región V	No. Observations:	151
							Model:	ARIMA(1, 1, 1)	Log Likelihood	-153.374
							Date:	Wed, 22 Nov 2023	AIC	312.748
							Time:	11:38:28	BIC	321.780
							Sample:	0	HQIC	316.417
								- 151		
							Covariance Type:	opg		
	coef	std err	z	P> z 	[0.025	0.975]	Ljung-Box (L1) (Q):	1.05	Jarque-Bera (JB):	125.26
ar.L1	0.9986	0.004	232.208	0.000	0.990	1.007	Prob(Q):	0.31	Prob(JB):	0.00
ma.L1	-0.9643	0.038	-25.371	0.000	-1.039	-0.890	Heteroskedasticity (H):	6.72	Skew:	0.51
sigma2	0.4467	0.030	14.742	0.000	0.387	0.506	Prob(H) (two-sided):	0.00	Kurtosis:	7.36

Warnings:

[1] Covariance matrix calculated using the outer product of gradients (complex-step).

Región VI

							Dep. Variable:	Región VI	No. Observations: 151
							Model:	ARIMA(0, 2, 1)	Log Likelihood -142.517
							Date:	Wed, 22 Nov 2023	AIC 289.033
							Time:	11:38:28	BIC 295.041
							Sample:	0	HQIC 291.474
								- 151	
							Covariance Type:	opg	
	coef	std err	z	P> z 	[0.025	0.975]	Ljung-Box (L1) (Q):	1.03	Jarque-Bera (JB): 50.59
ma.L1	-0.9340	0.027	-35.106	0.000	-0.986	-0.882	Prob(Q):	0.31	Prob(JB): 0.00
sigma2	0.3911	0.030	12.889	0.000	0.332	0.451	Heteroskedasticity (H):	5.72	Skew: 0.78
							Prob(H) (two-sided):	0.00	Kurtosis: 5.39

Warnings:

[1] Covariance matrix calculated using the outer product of gradients (complex-step).

Región VII

							Dep. Variable:	Región VII	No. Observations: 151
							Model:	ARIMA(0, 2, 3)	Log Likelihood -291.329
							Date:	Wed, 22 Nov 2023	AIC 590.657
							Time:	11:38:29	BIC 602.673
							Sample:	0	HQIC 595.539
								- 151	
							Covariance Type:	opg	
	coef	std err	z	P> z 	[0.025	0.975]	Ljung-Box (L1) (Q):	0.36	Jarque-Bera (JB): 56.29
ma.L1	-0.7479	0.049	-15.206	0.000	-0.844	-0.652	Prob(Q):	0.55	Prob(JB): 0.00
ma.L2	-0.6340	0.057	-11.142	0.000	-0.746	-0.522	Heteroskedasticity (H):	16.06	Skew: 0.42
ma.L3	0.4119	0.053	7.829	0.000	0.309	0.515	Prob(H) (two-sided):	0.00	Kurtosis: 5.89
sigma2	2.8537	0.217	13.166	0.000	2.429	3.278			

Warnings:

[1] Covariance matrix calculated using the outer product of gradients (complex-step).

Región VIII

							Dep. Variable:	Región VIII	No. Observations: 151
							Model:	ARIMA(2, 1, 0)	Log Likelihood -205.313
							Date:	Wed, 22 Nov 2023	AIC 416.627
							Time:	11:38:29	BIC 425.659
							Sample:	0	HQIC 420.296
								- 151	
							Covariance Type:	opg	
	coef	std err	z	P> z 	[0.025	0.975]	Ljung-Box (L1) (Q):	2.00	Jarque-Bera (JB): 45.50
ar.L1	0.3614	0.054	6.748	0.000	0.256	0.466	Prob(Q):	0.16	Prob(JB): 0.00
ar.L2	-0.0747	0.065	-1.148	0.251	-0.202	0.053	Heteroskedasticity (H):	4.63	Skew: -0.07
sigma2	0.9037	0.076	11.903	0.000	0.755	1.053	Prob(H) (two-sided):	0.00	Kurtosis: 5.69

Warnings:

[1] Covariance matrix calculated using the outer product of gradients (complex-step).