

Ministerio para la Transición Ecológica y el Reto Demográfico
Dirección General del Agua

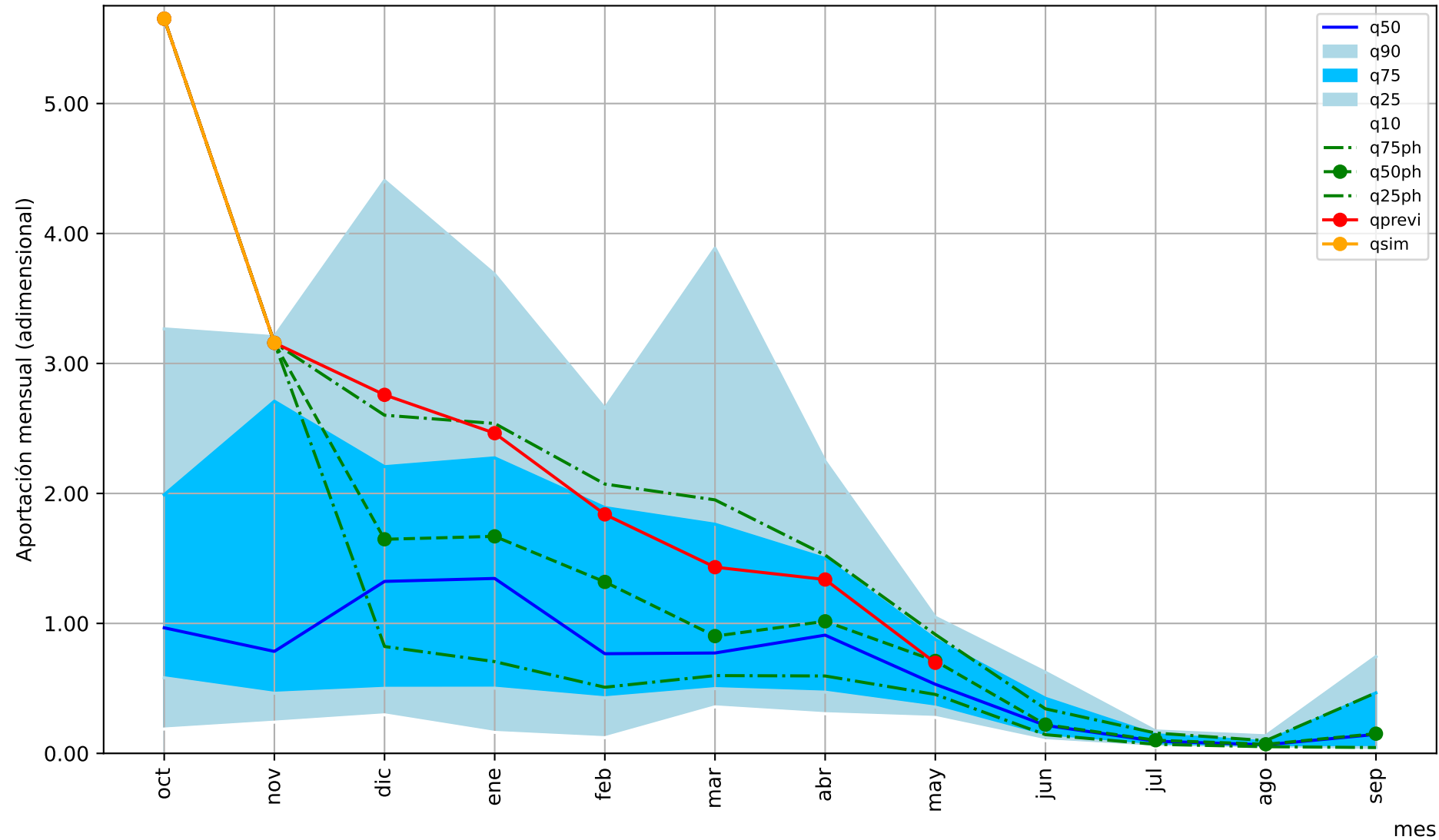
Calculo de predicciones hidrológicas estacionales

Modelo simulación hidrológica: PATRICAL

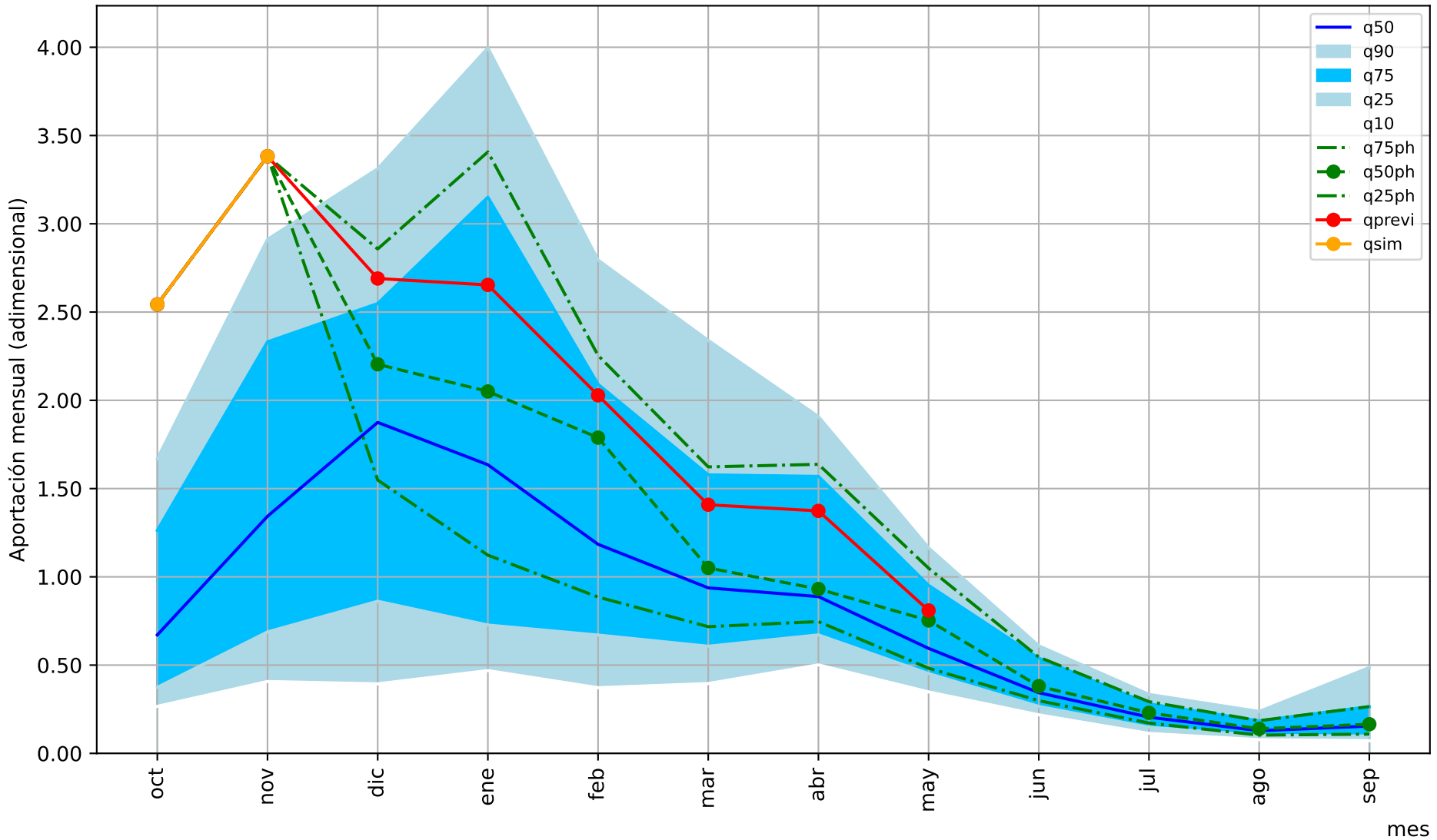
Aportaciones hidrológicas en régimen natural

Predicción realizada en diciembre de 2023

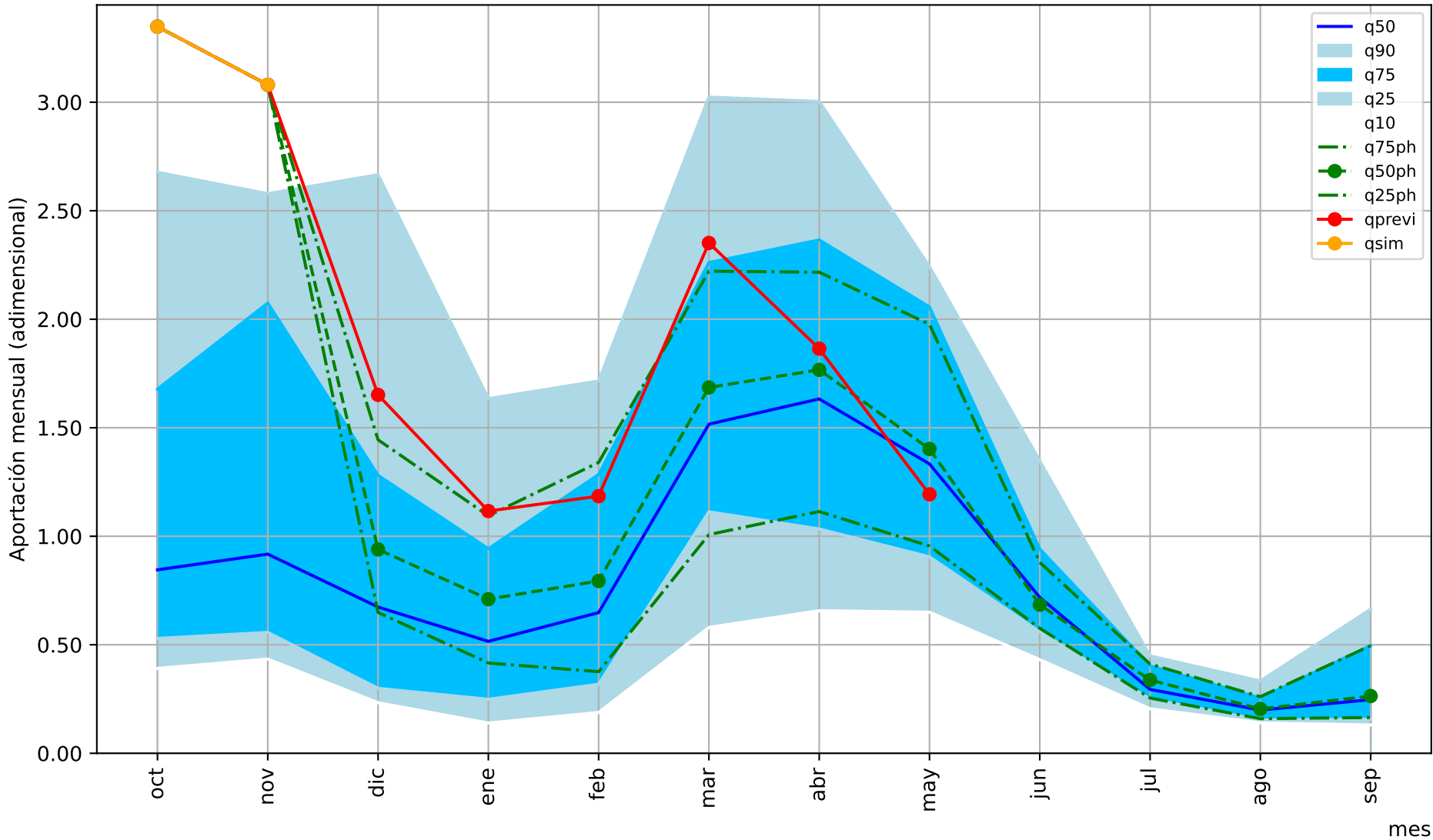
Universitat Politècnica de València
IIAMA - Instituto de Ingeniería del Agua y Medio Ambiente



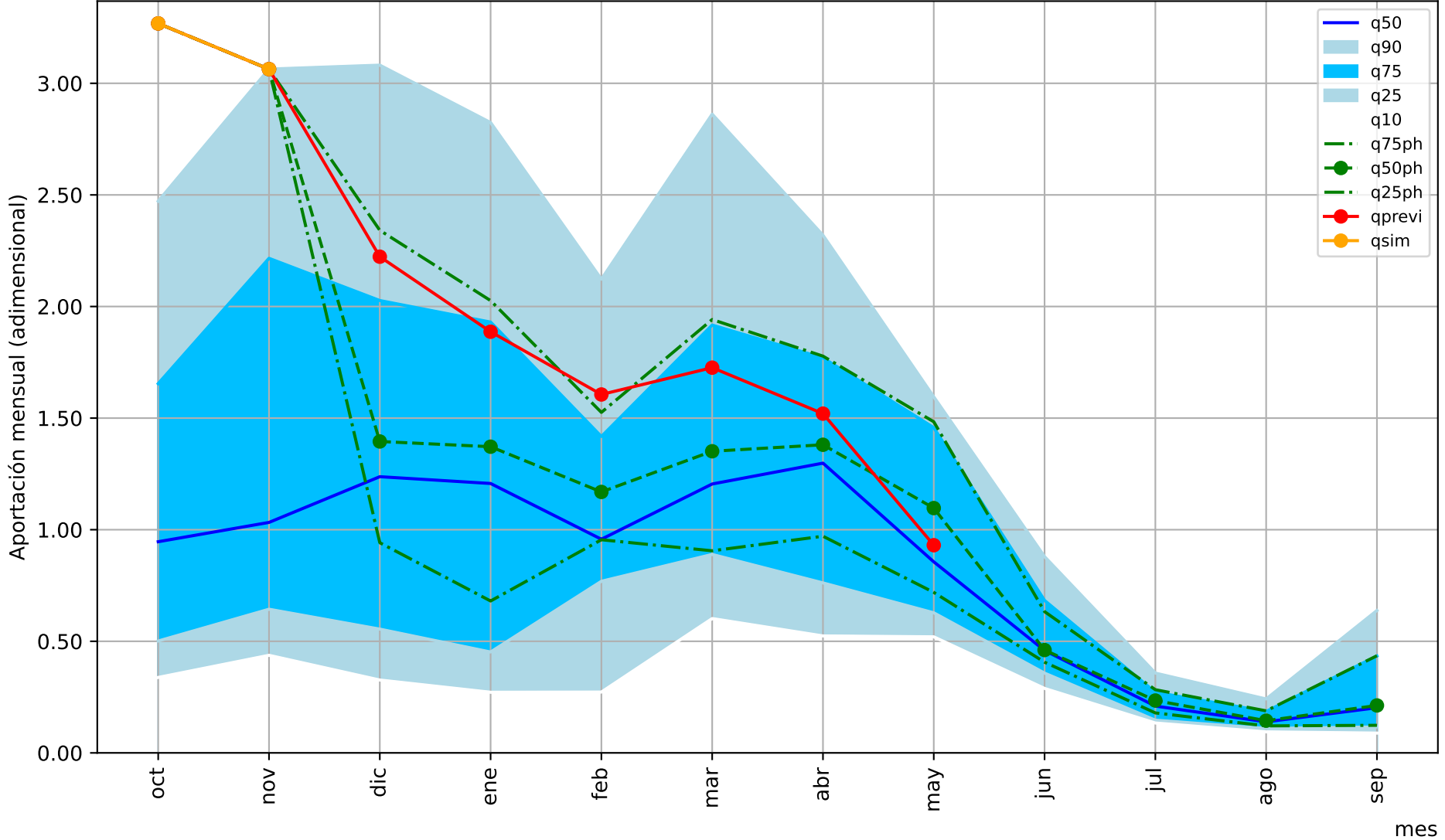
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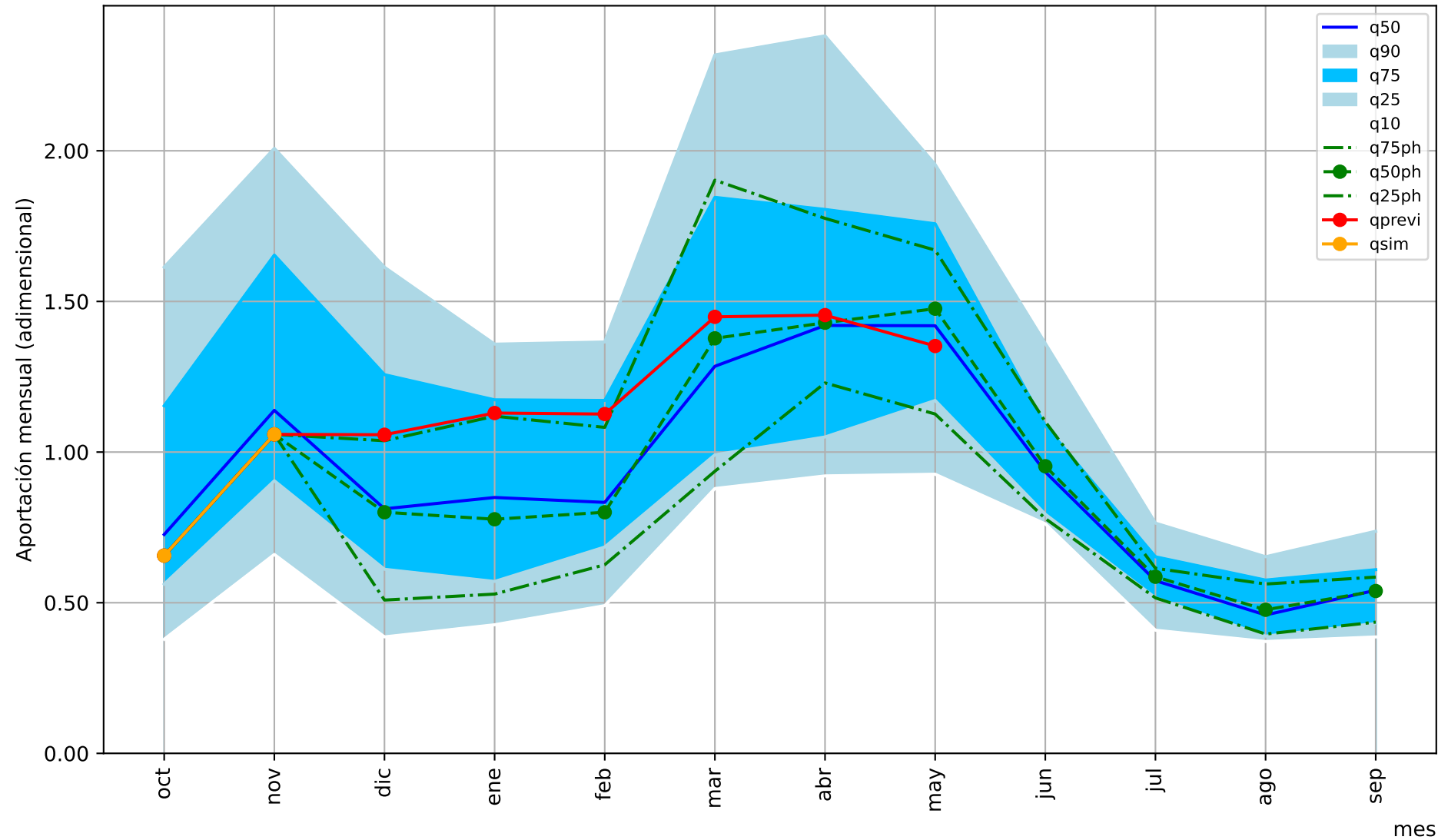
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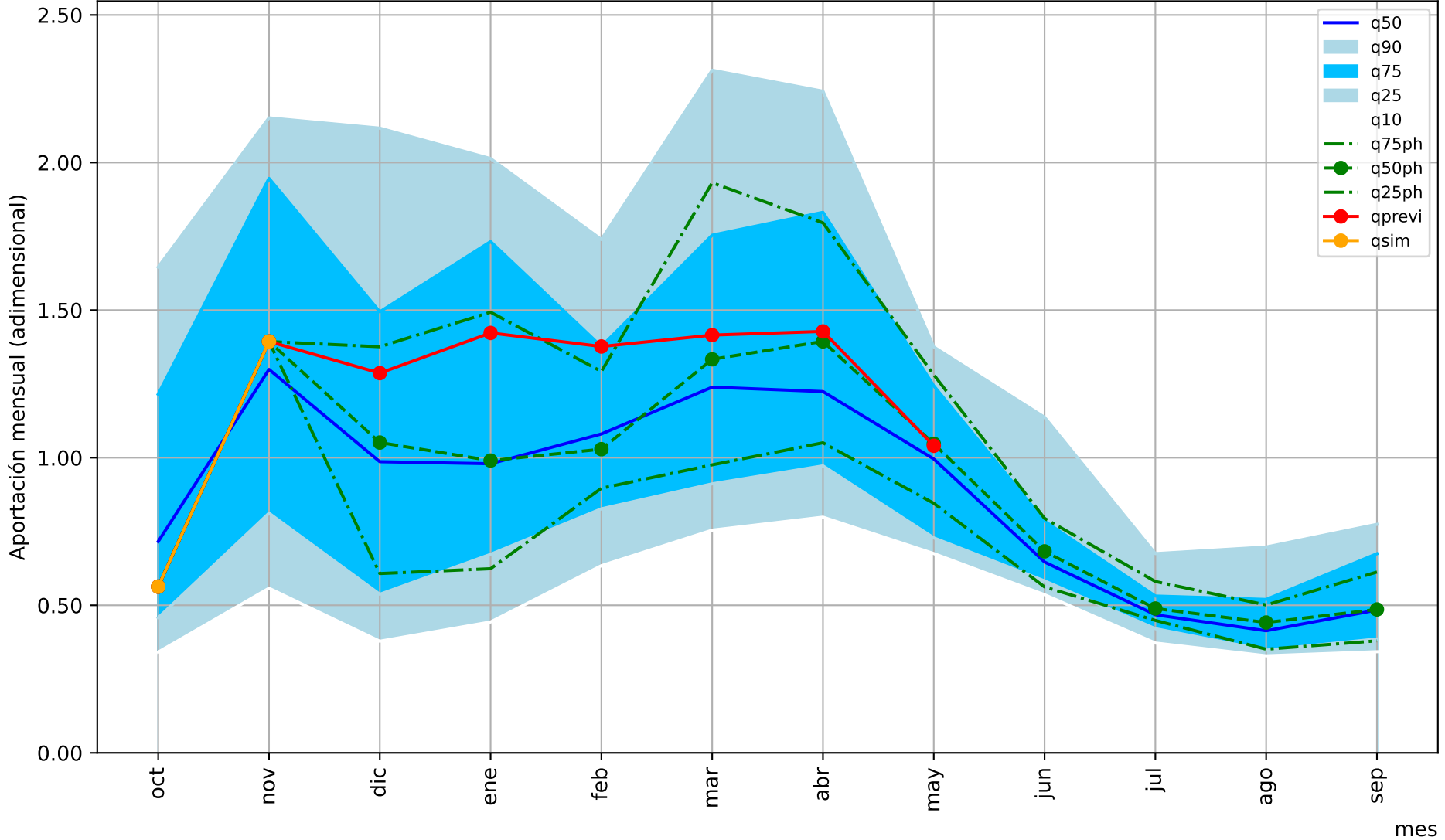
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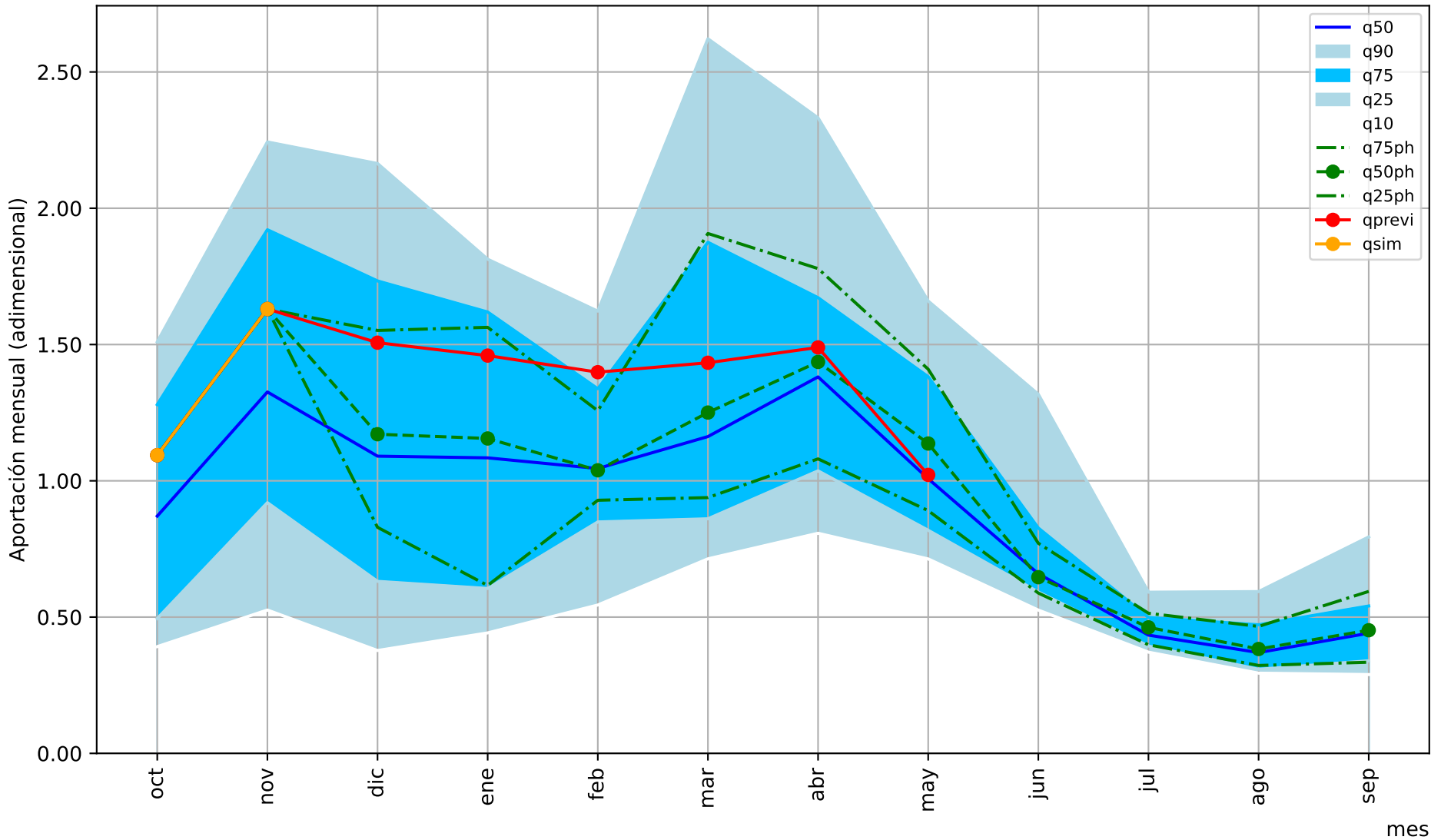
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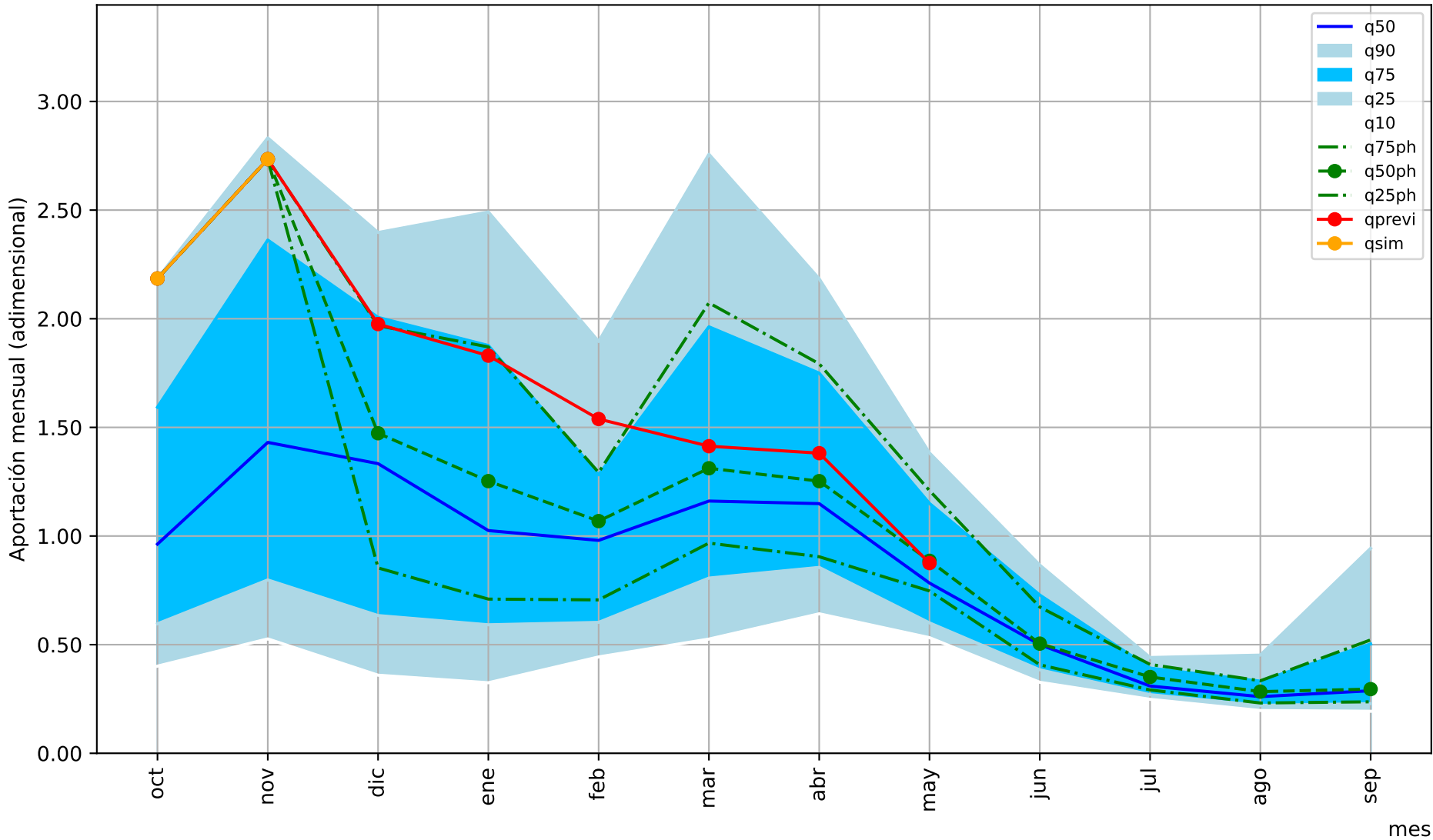
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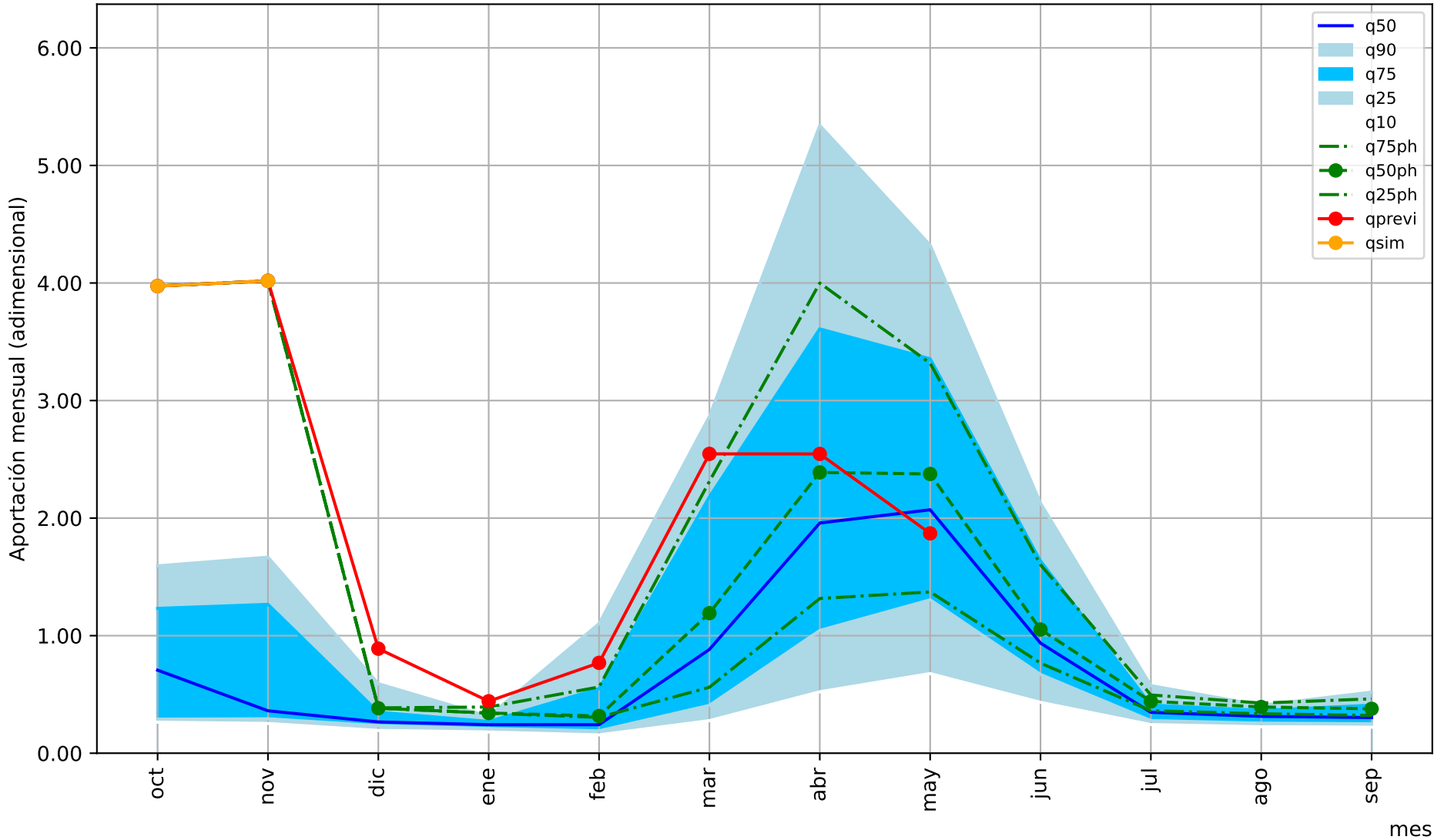
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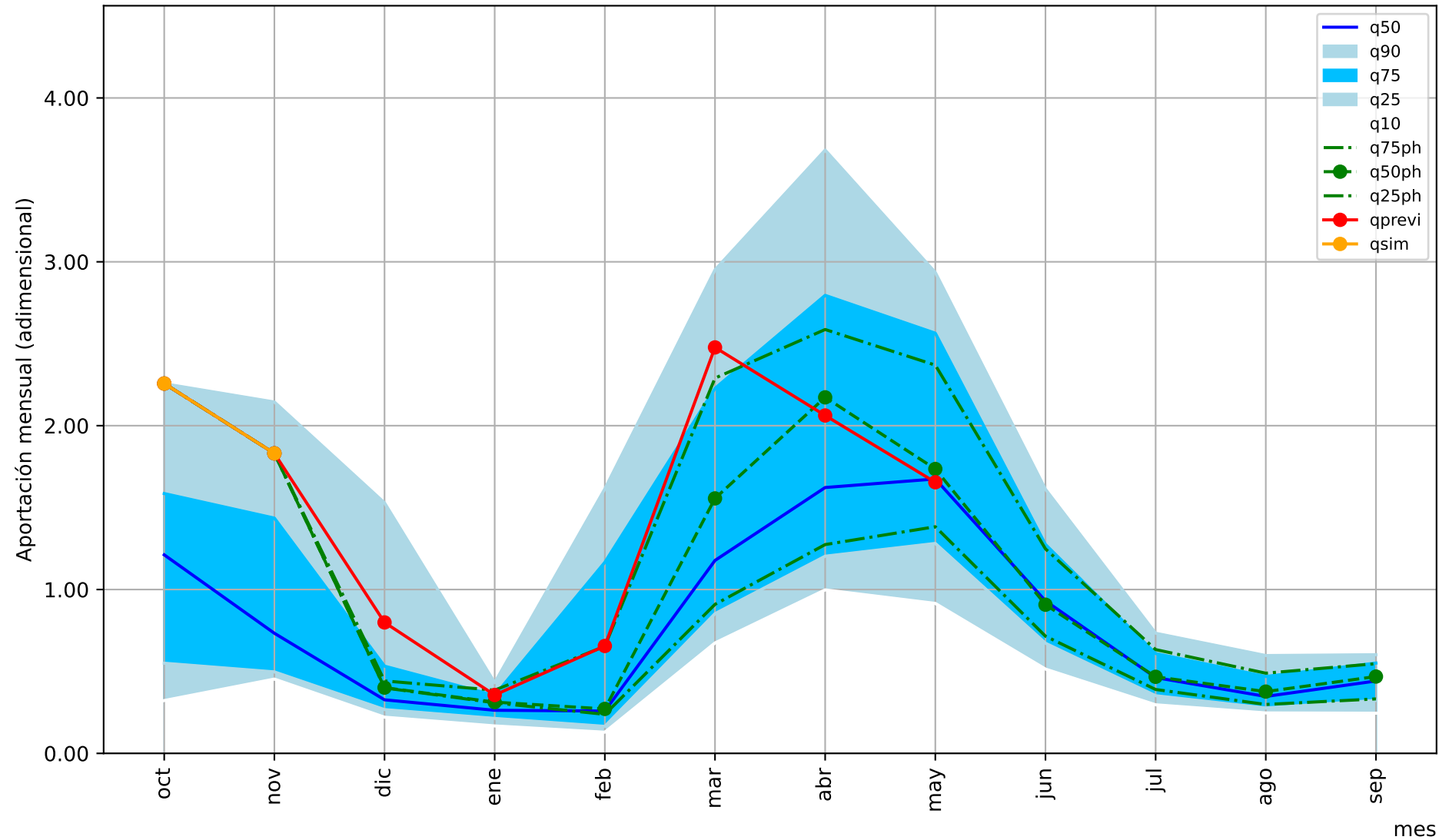
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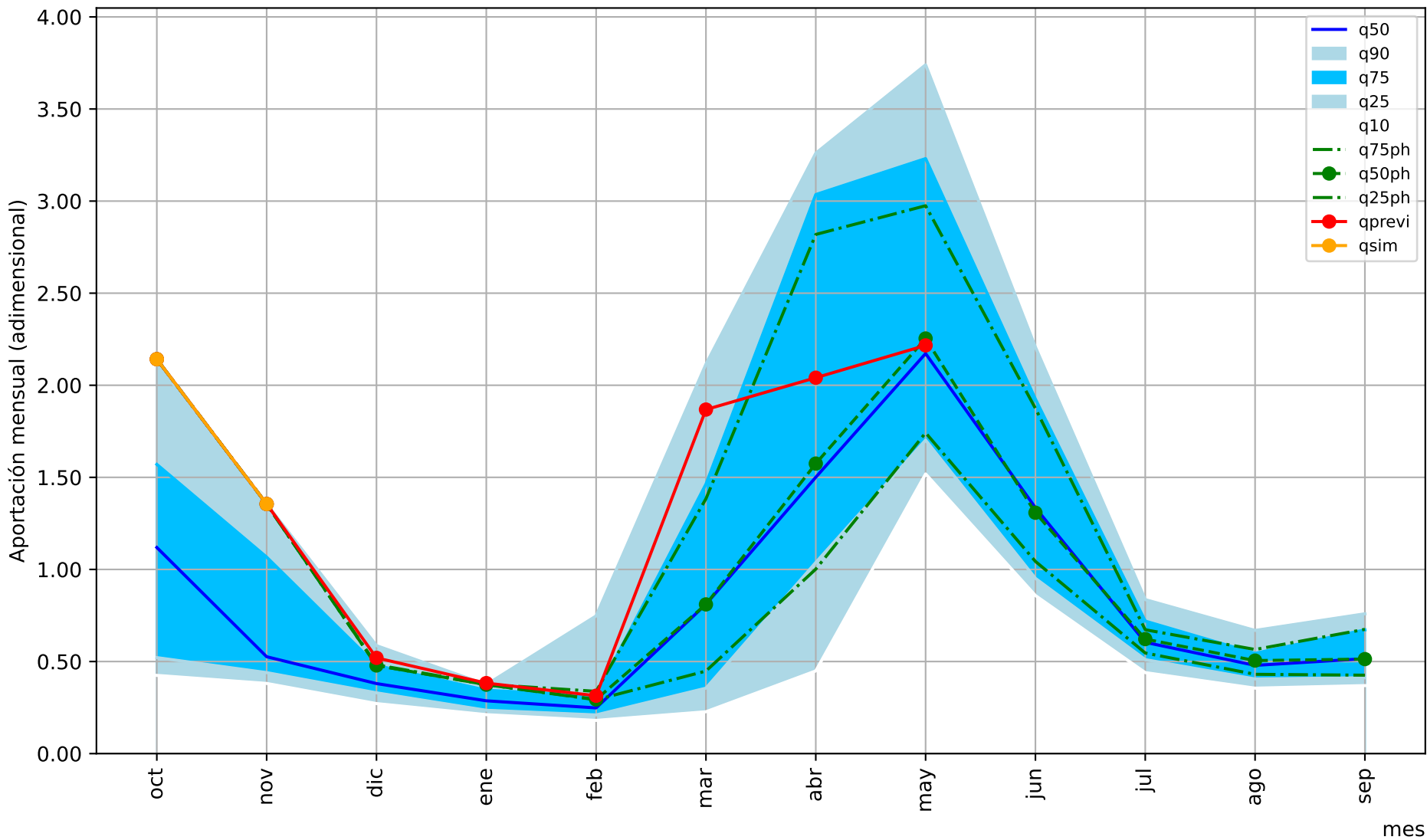
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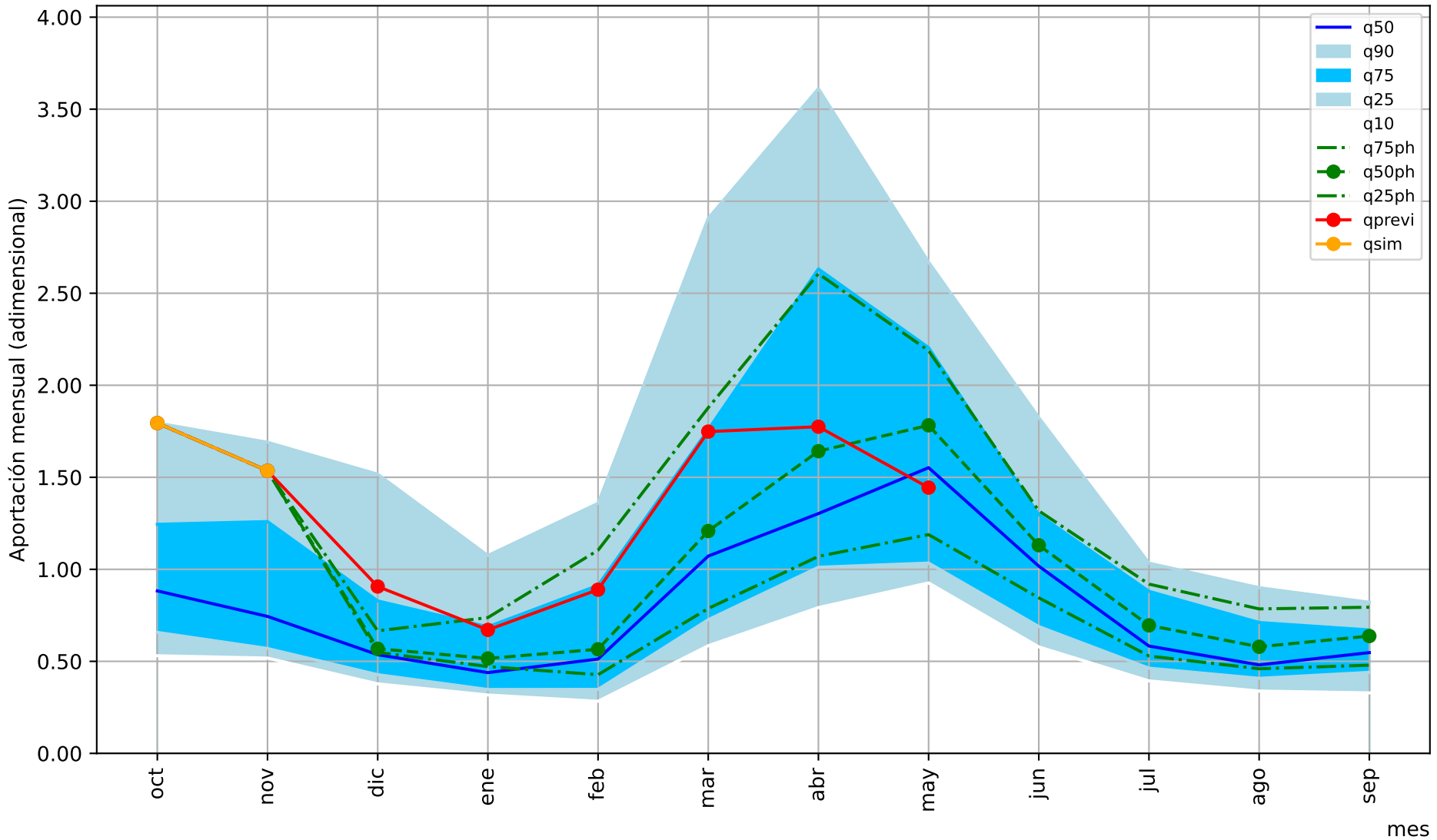
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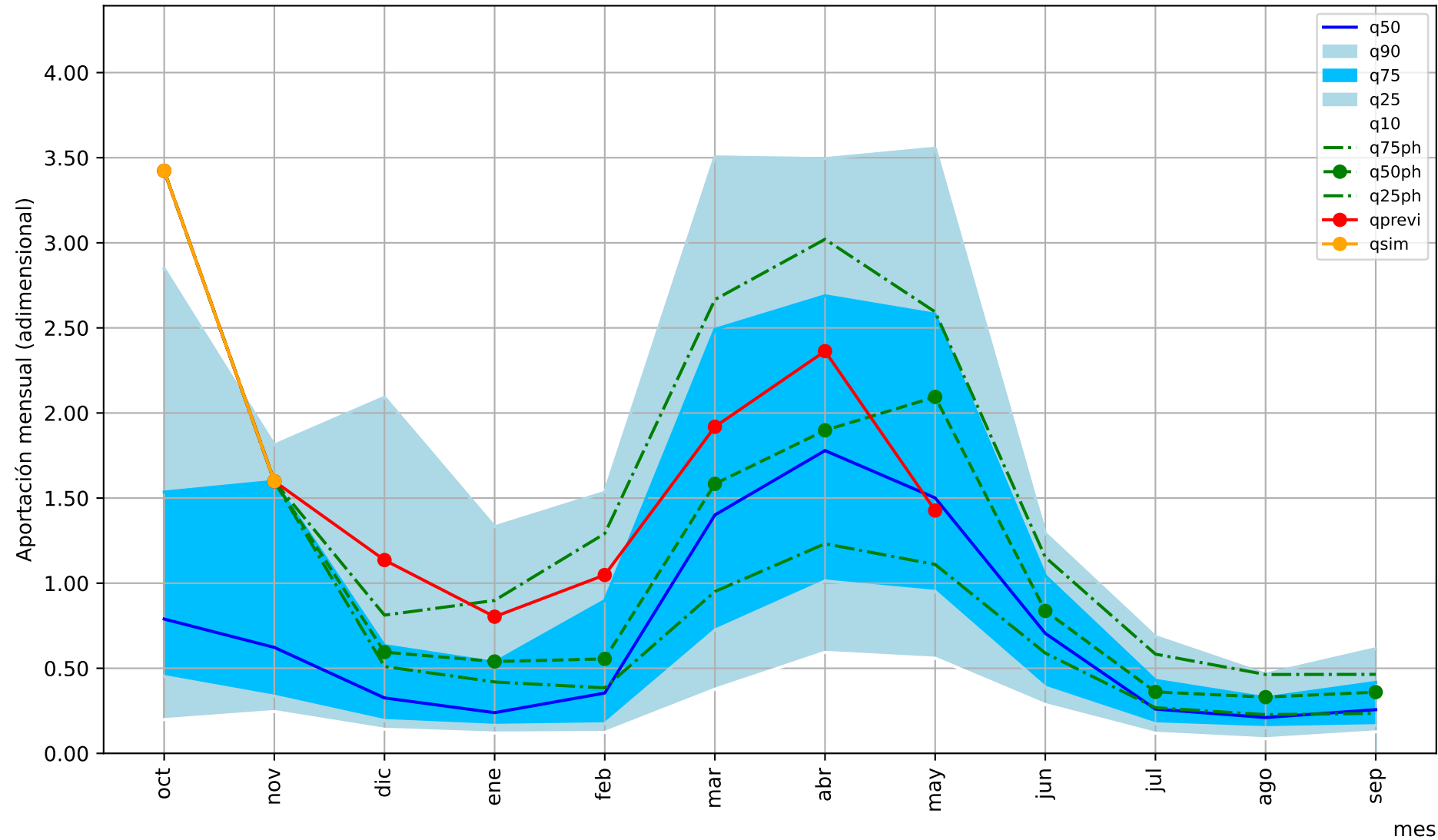
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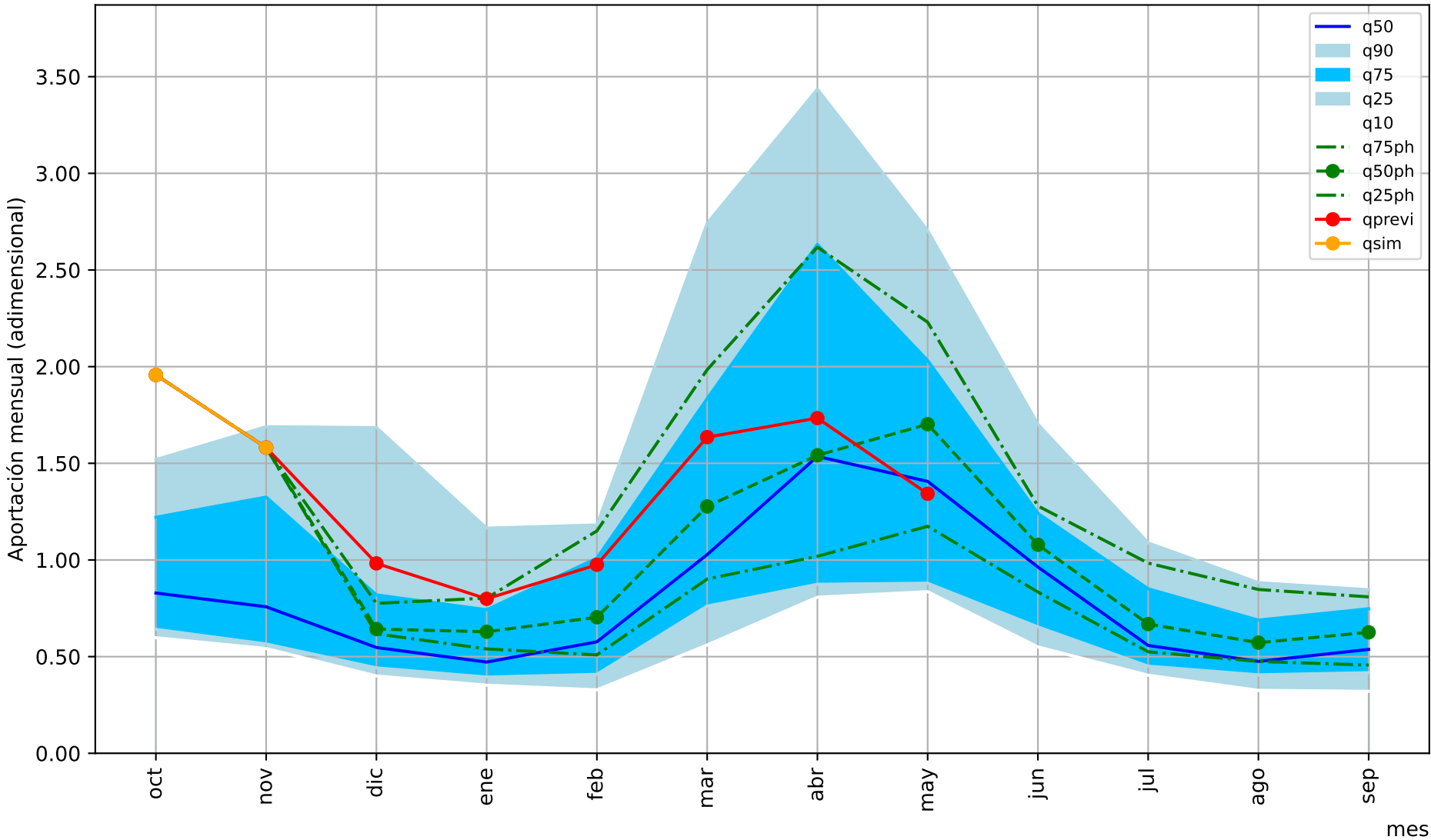
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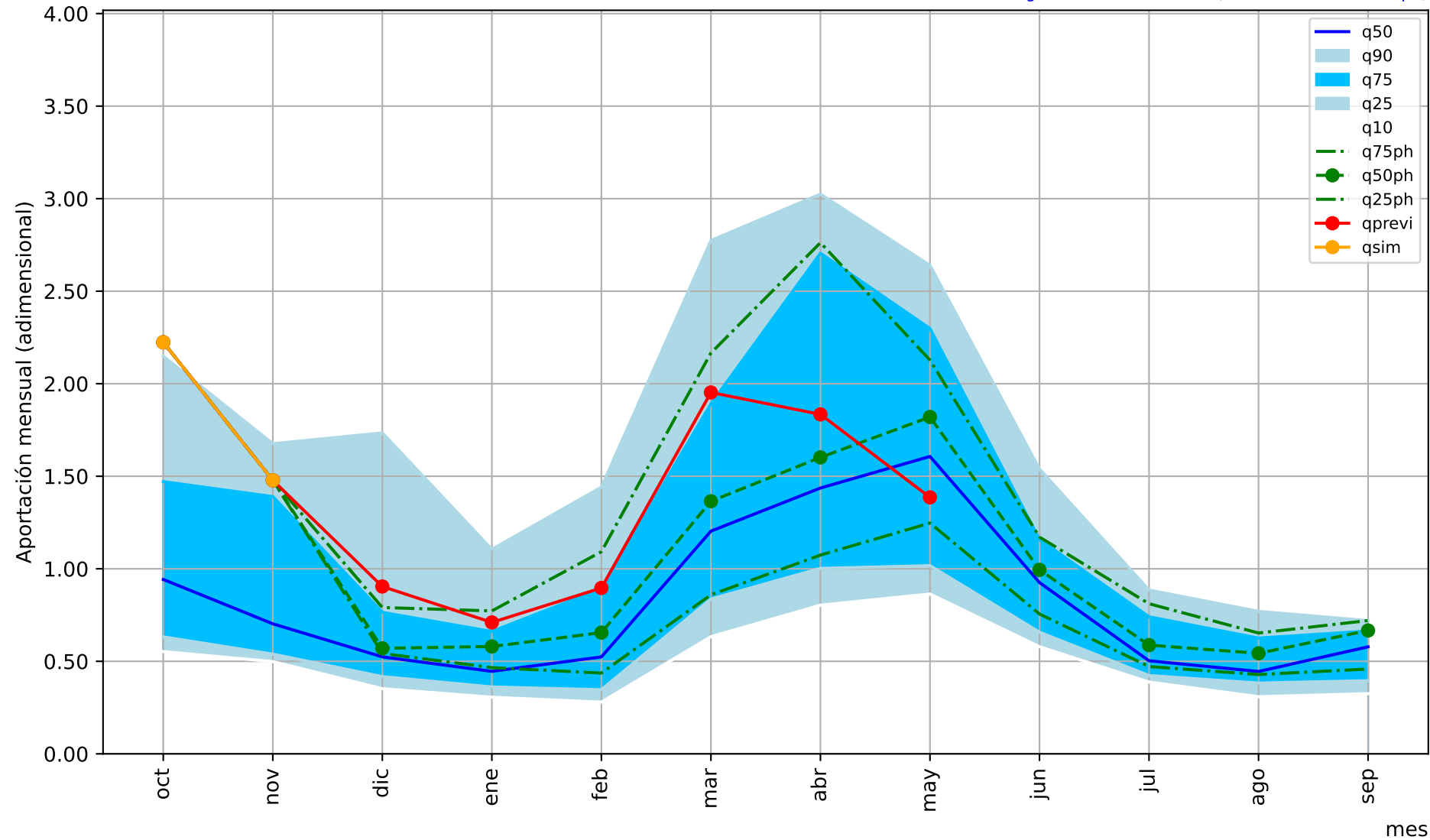
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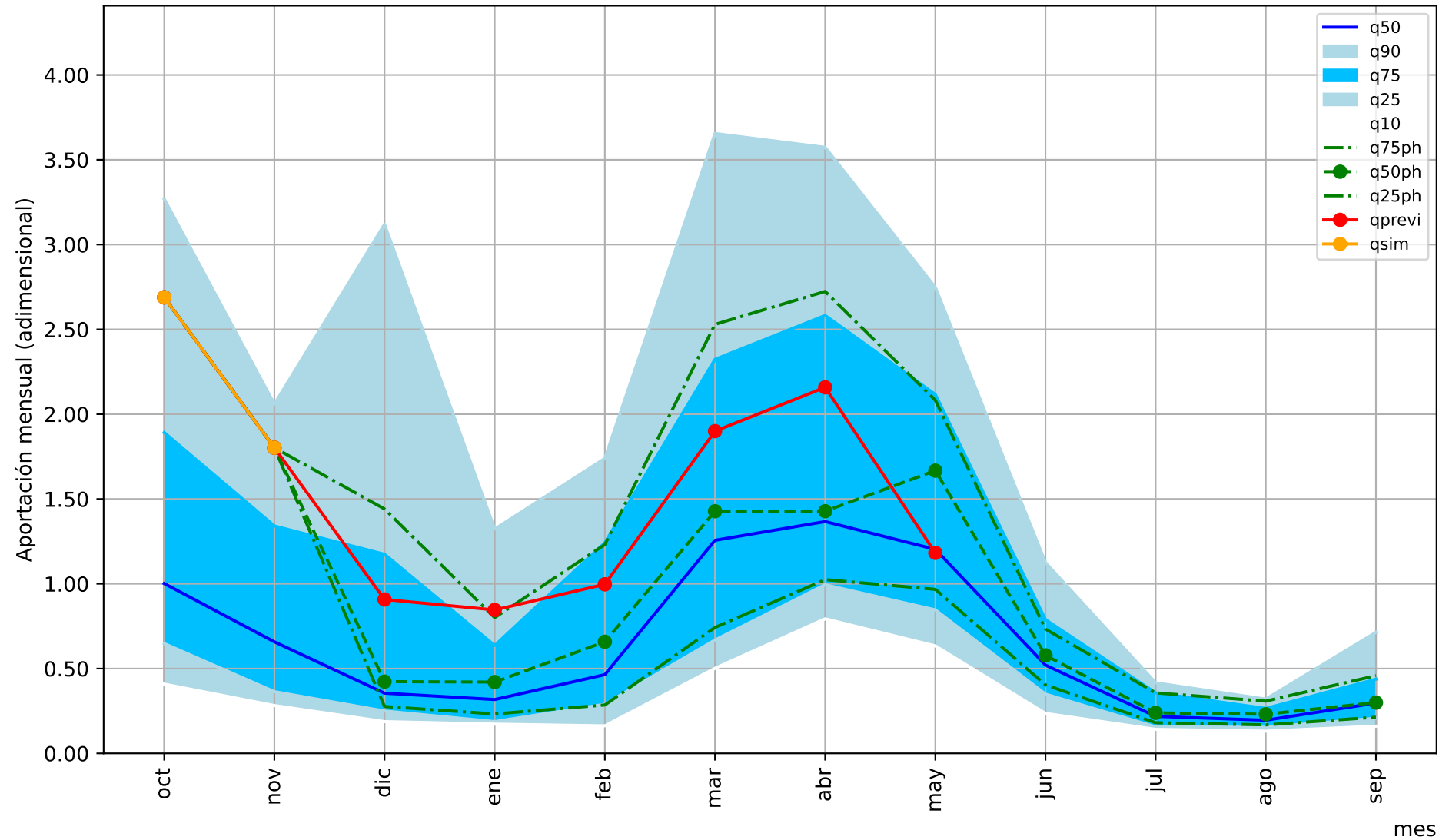
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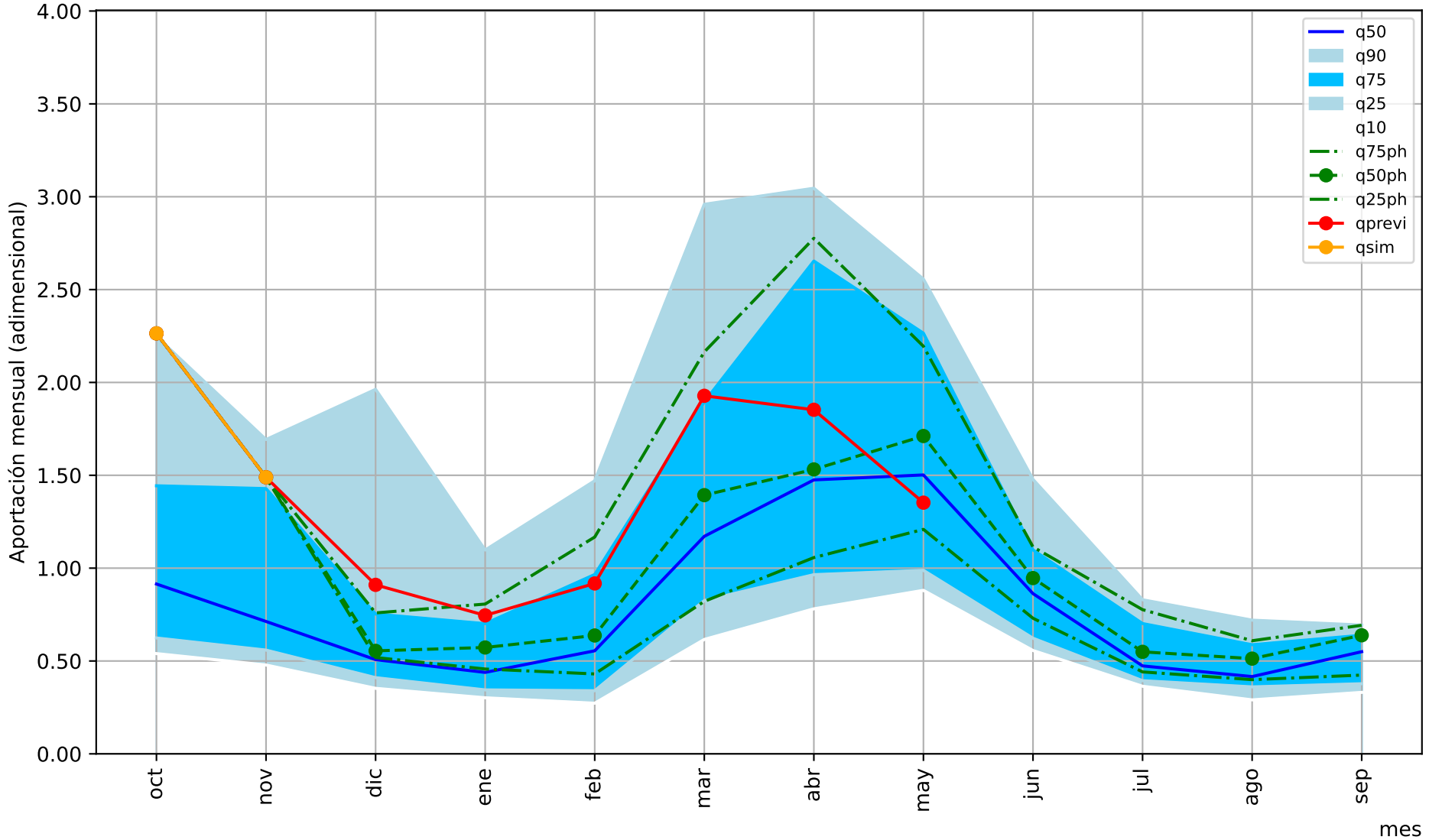
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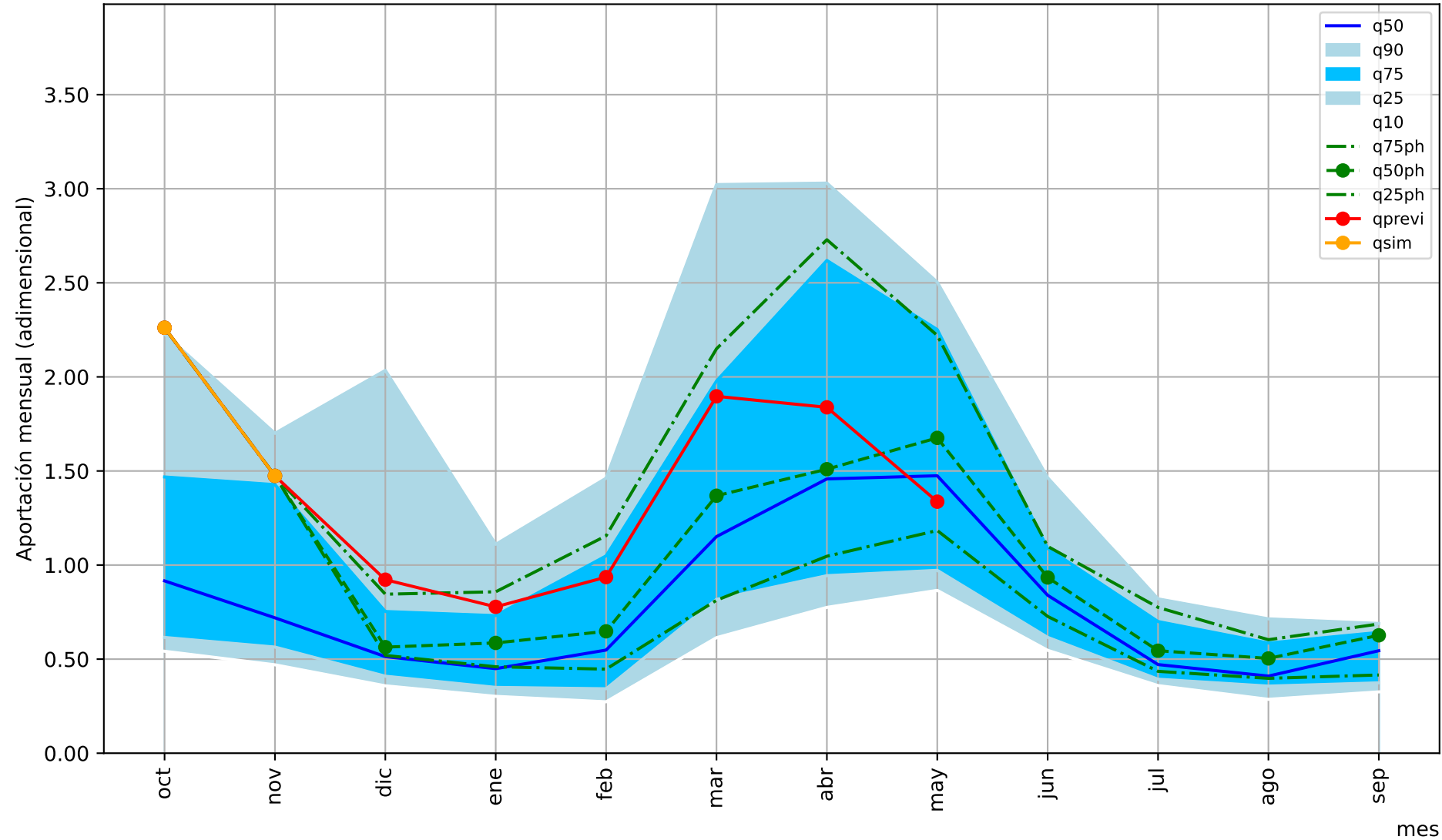
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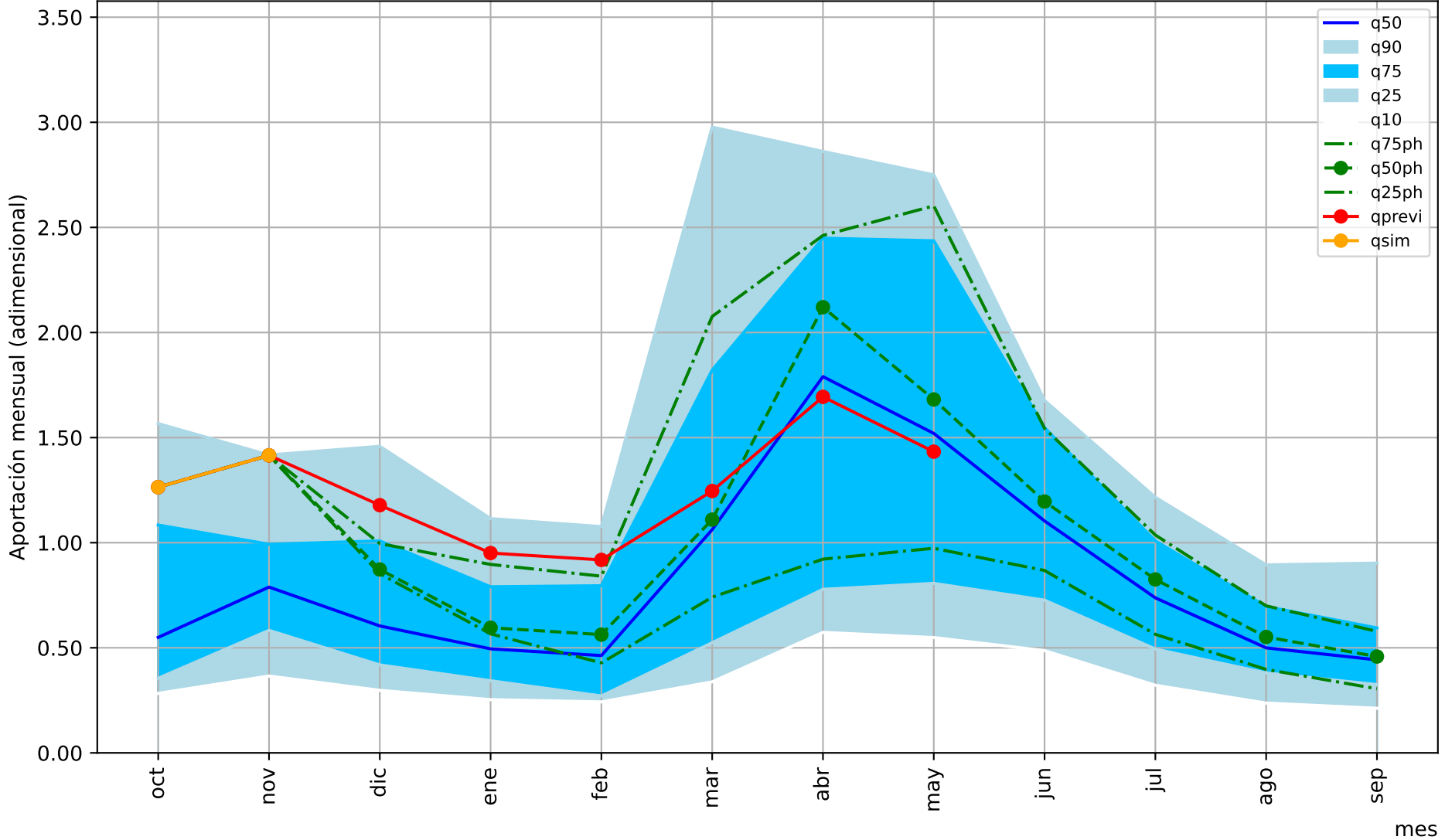
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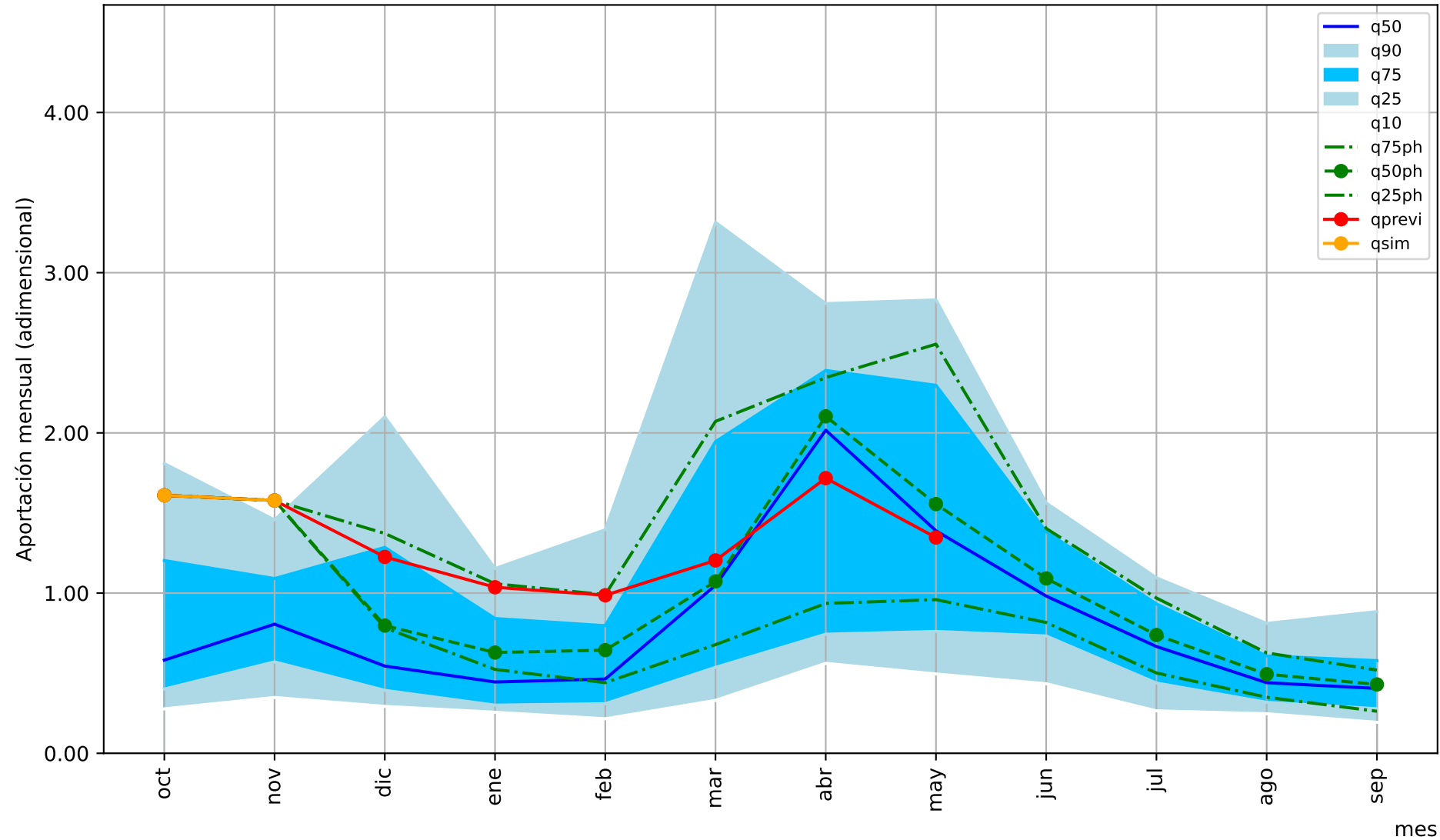


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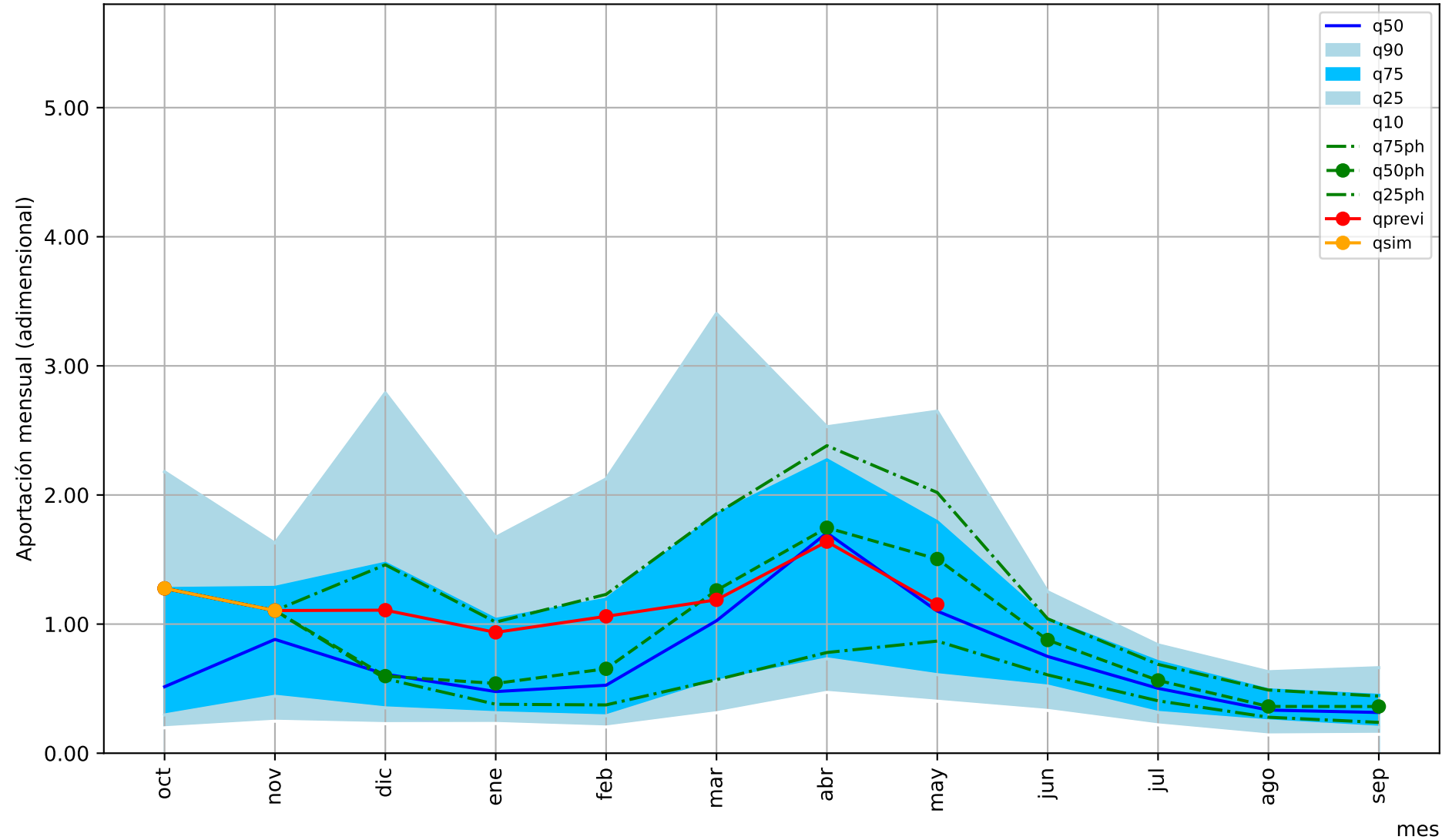


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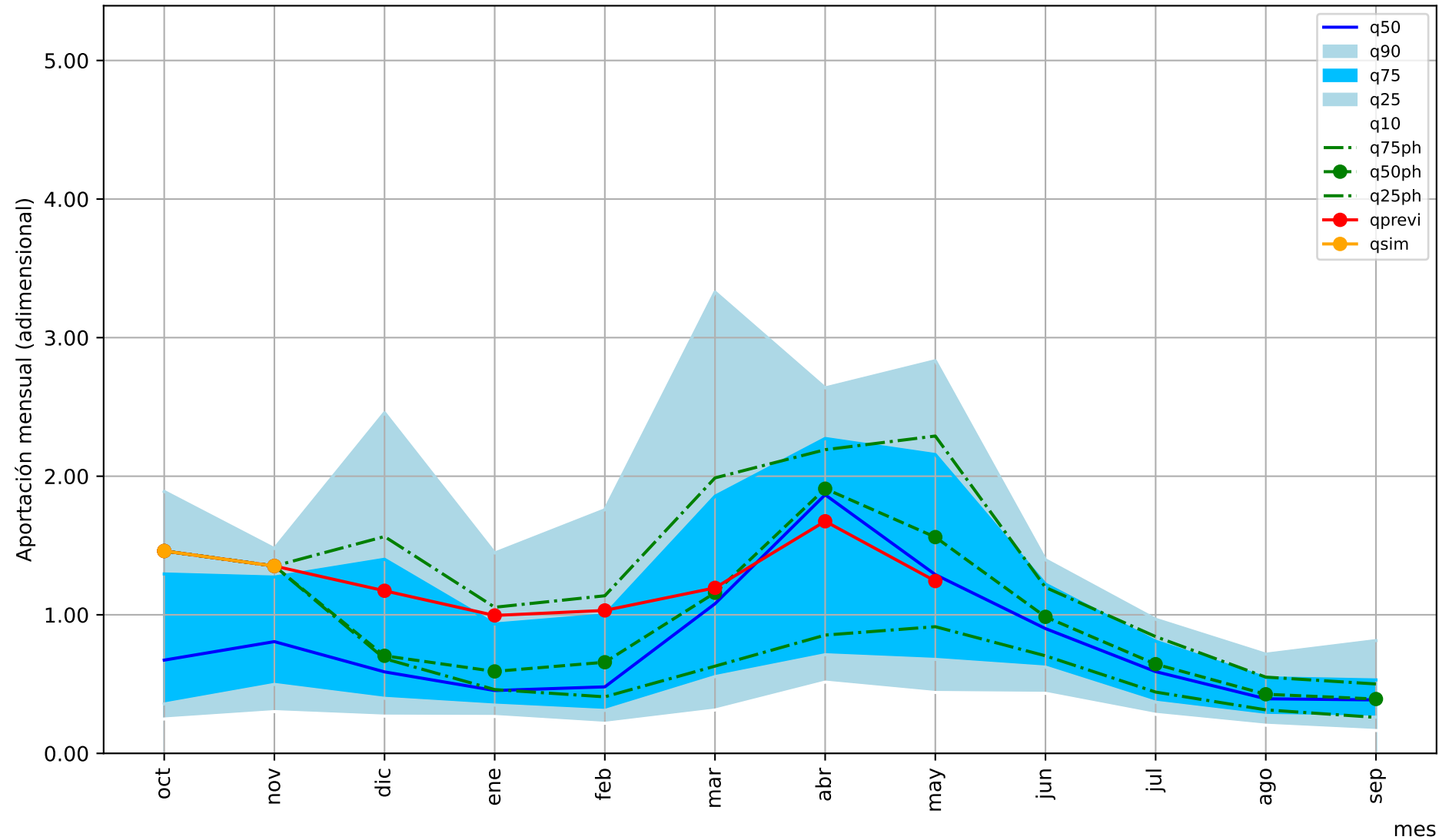
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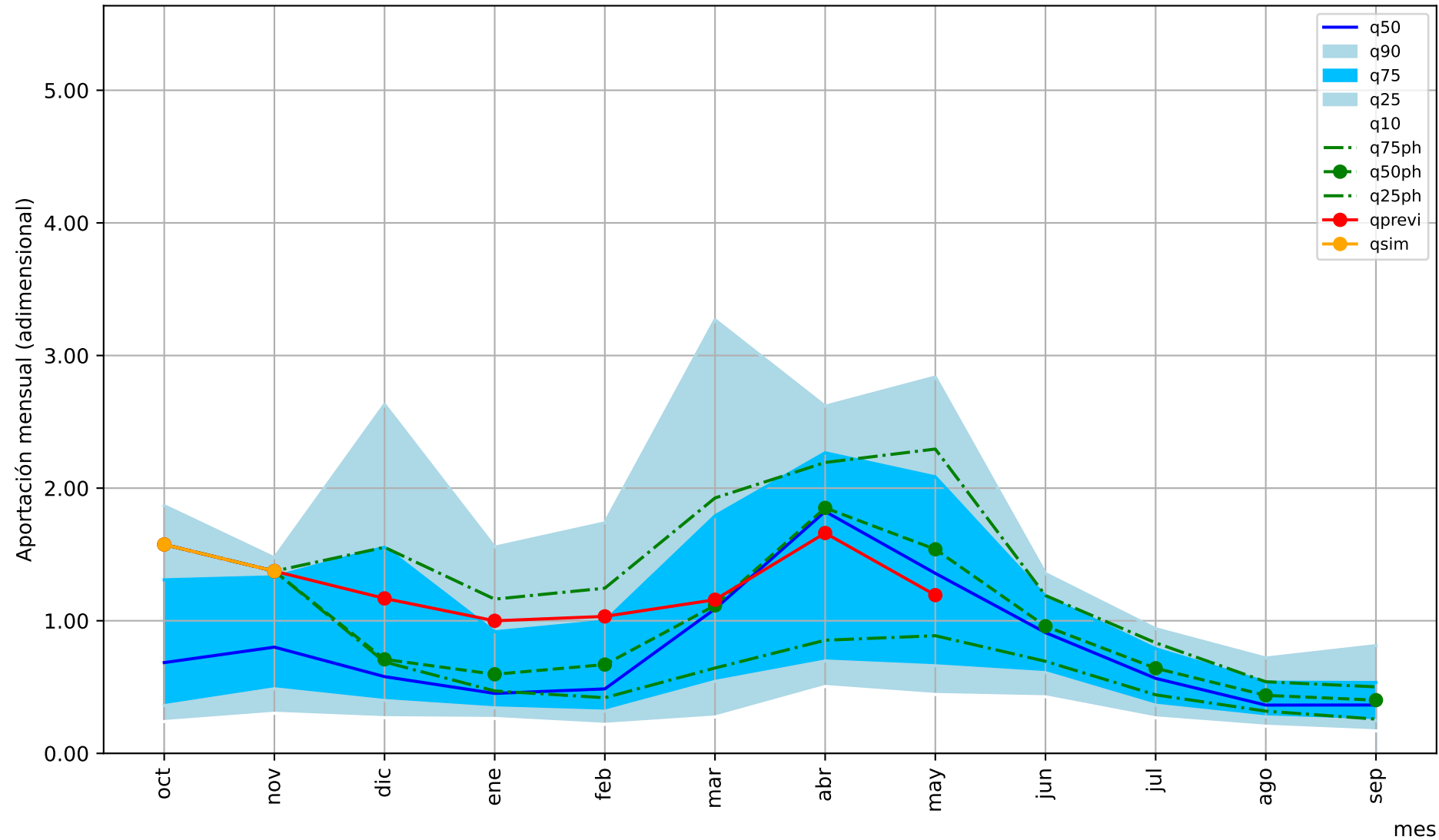
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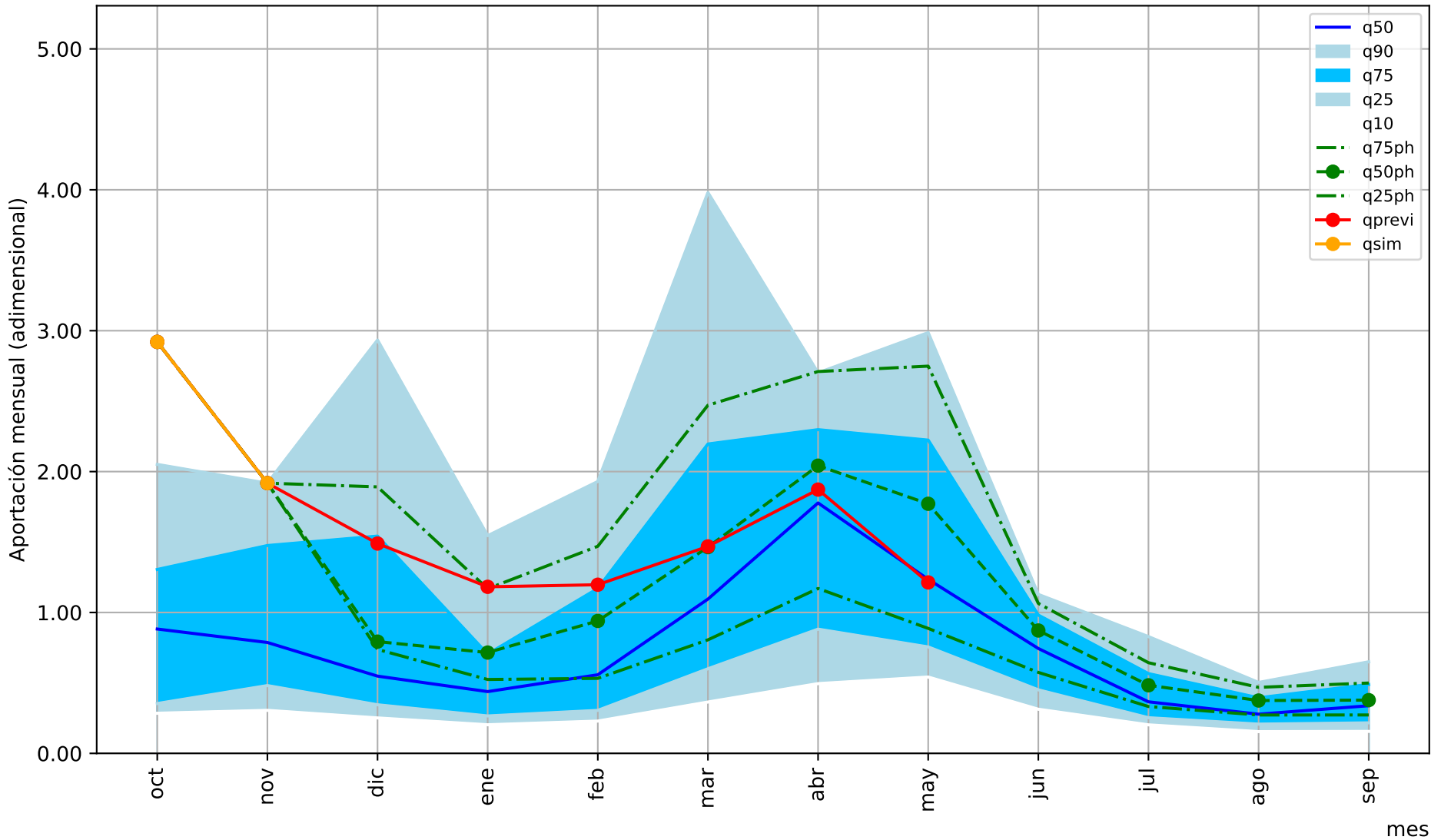
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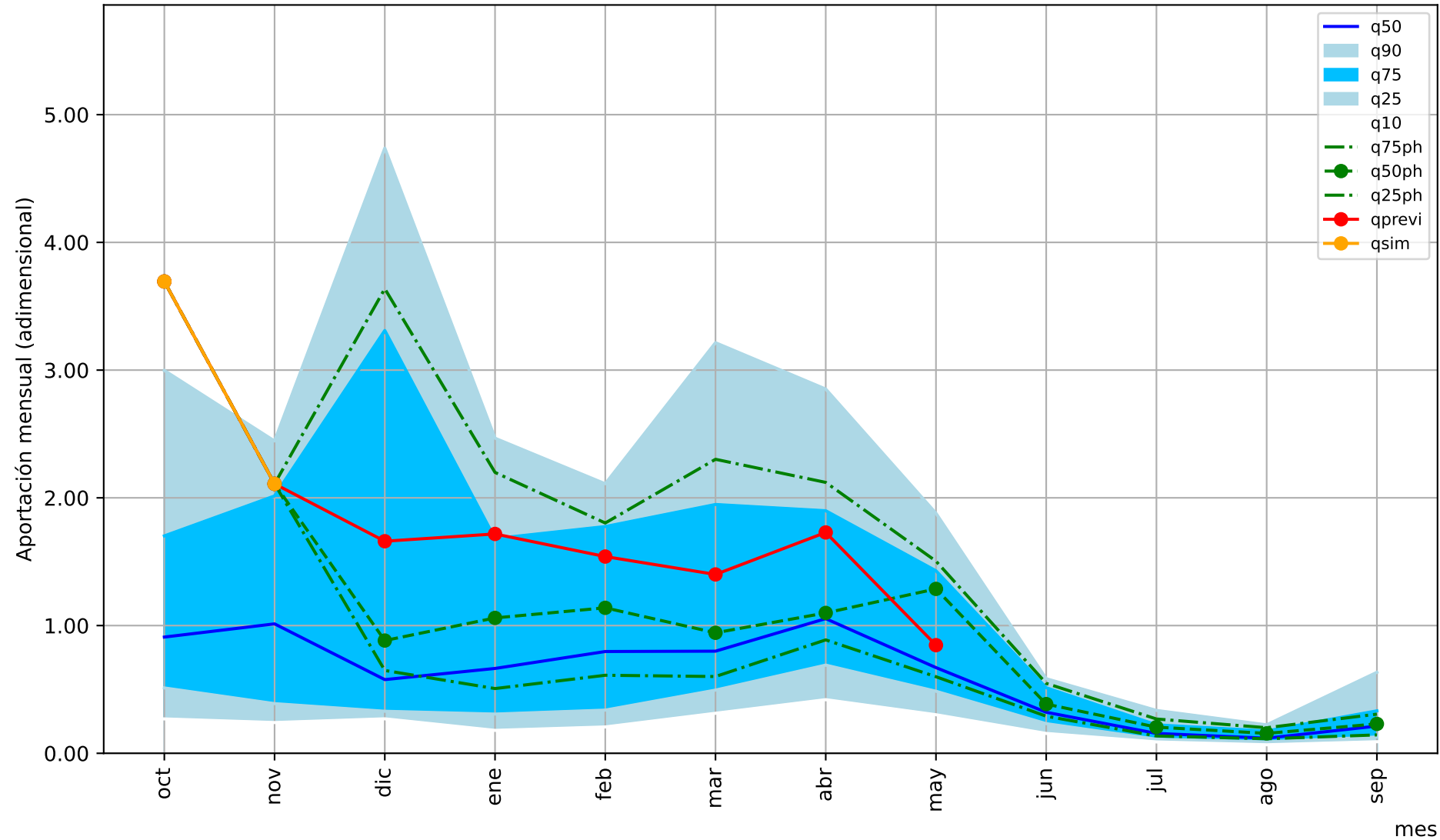
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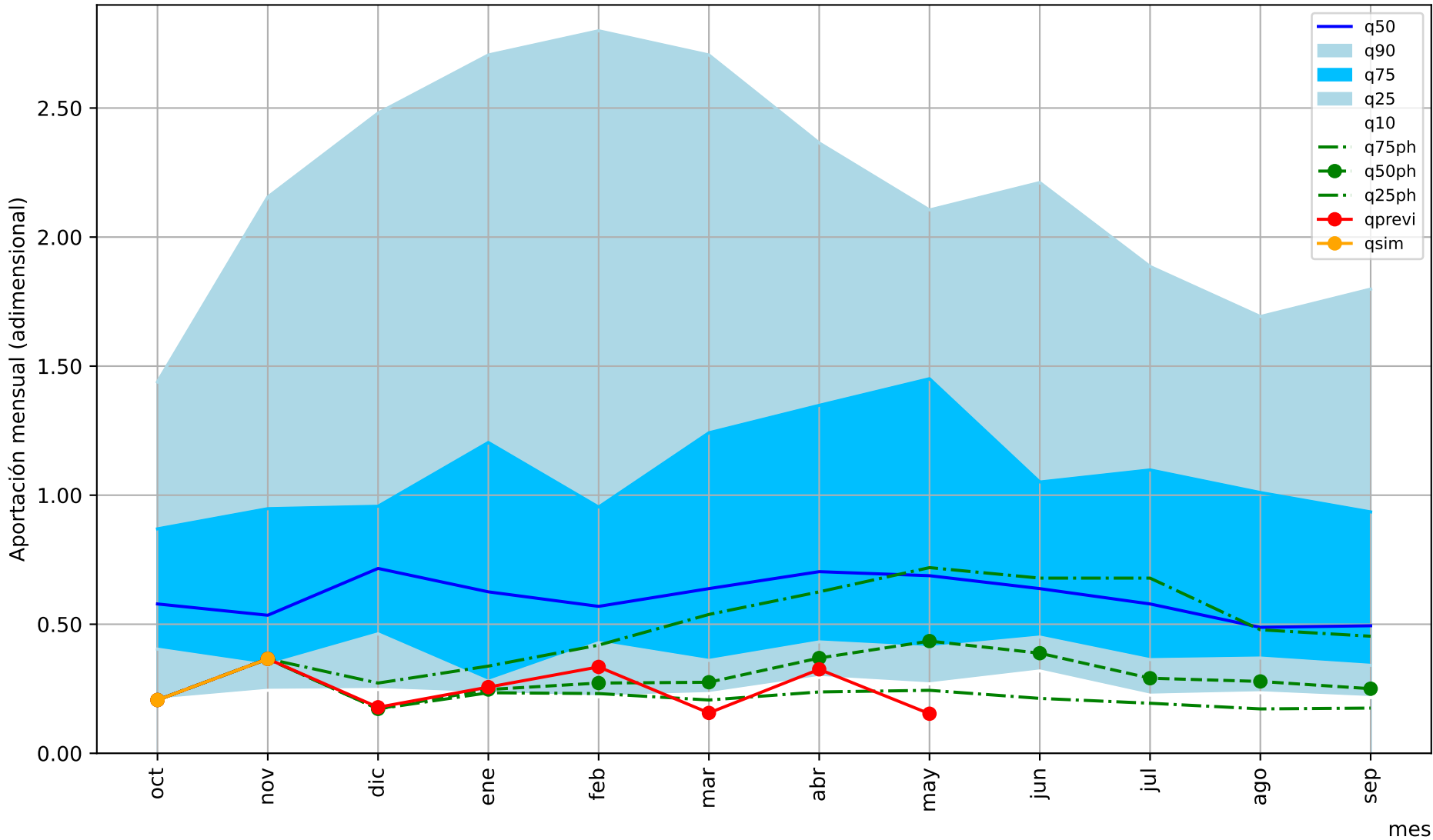


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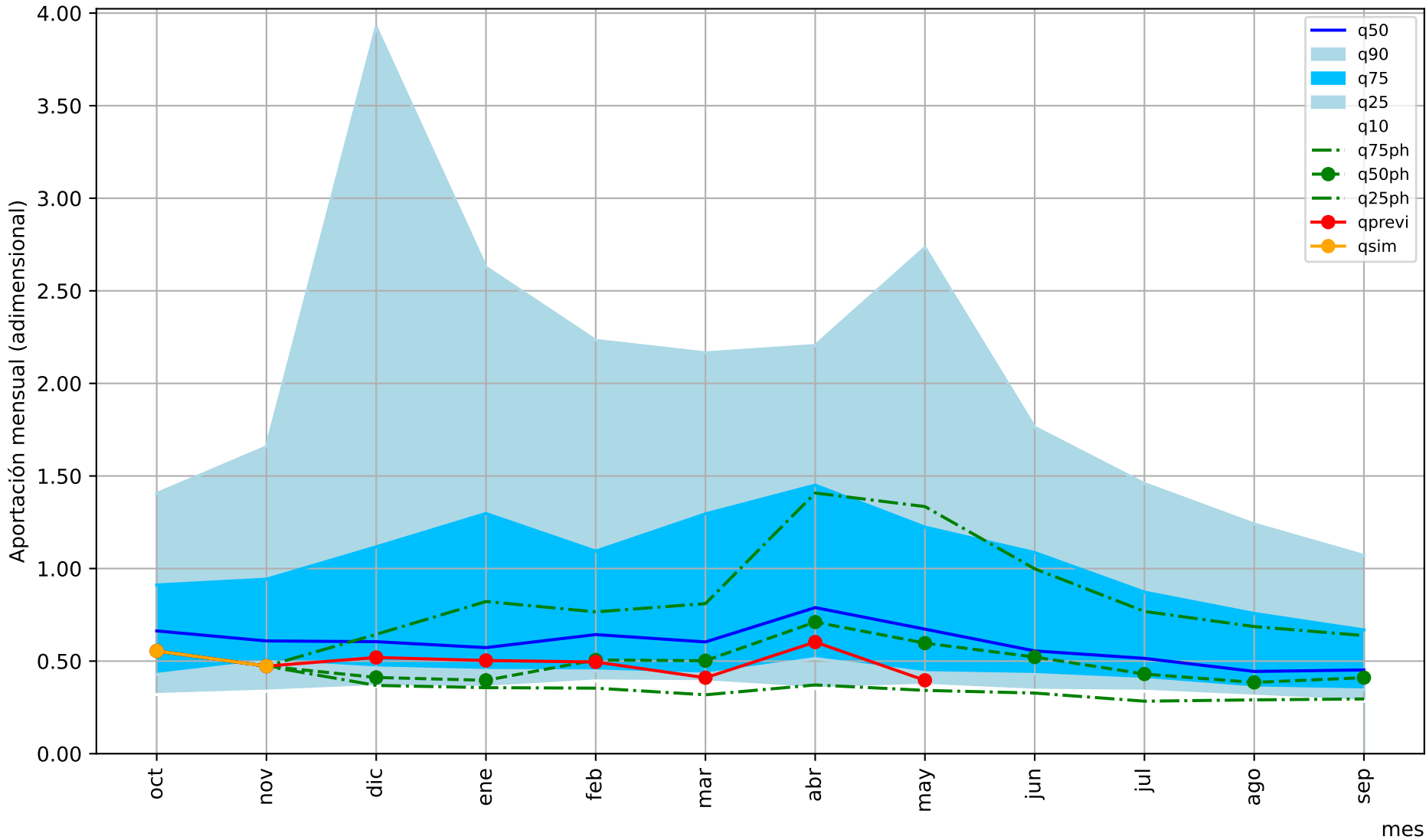


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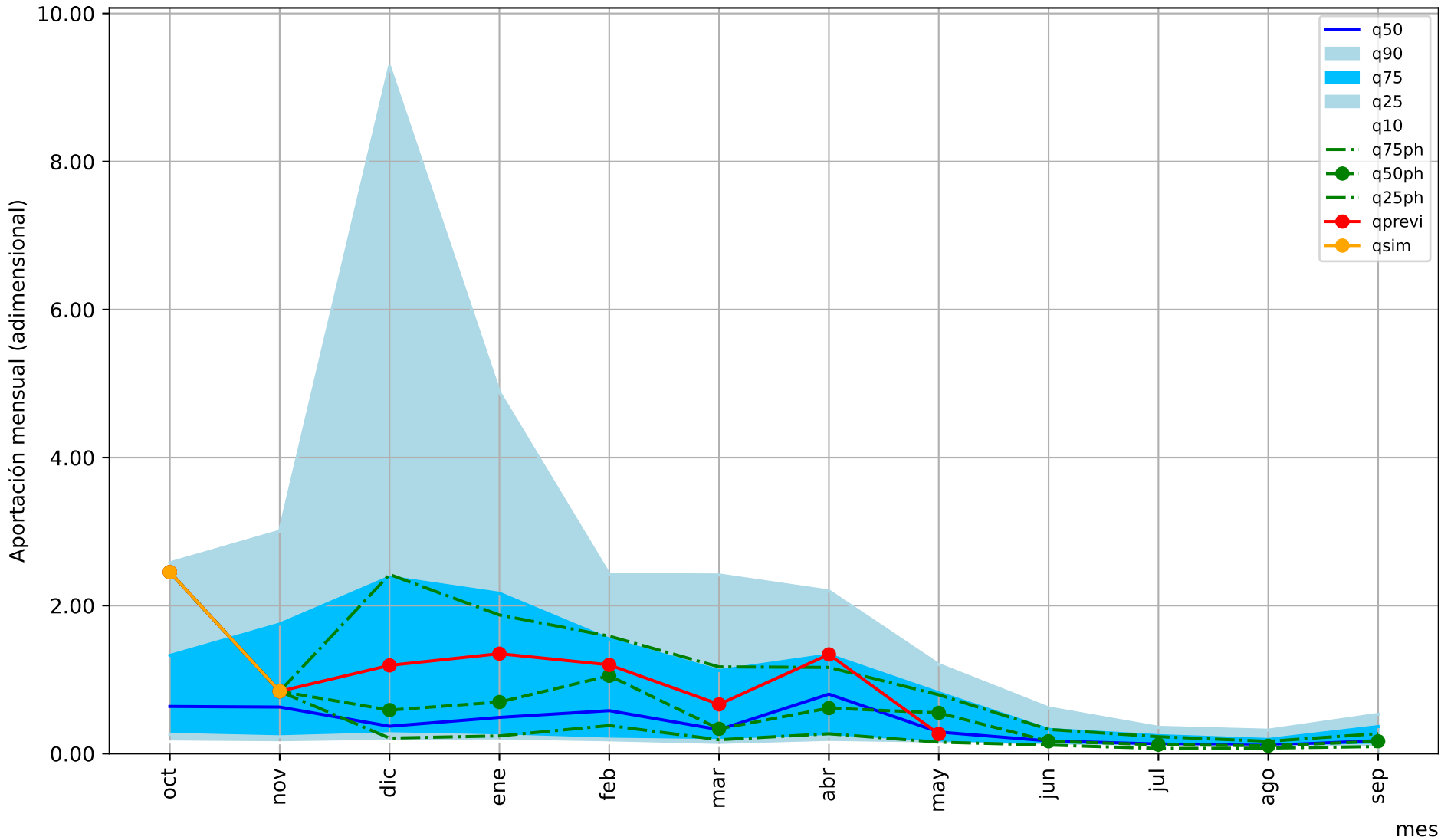
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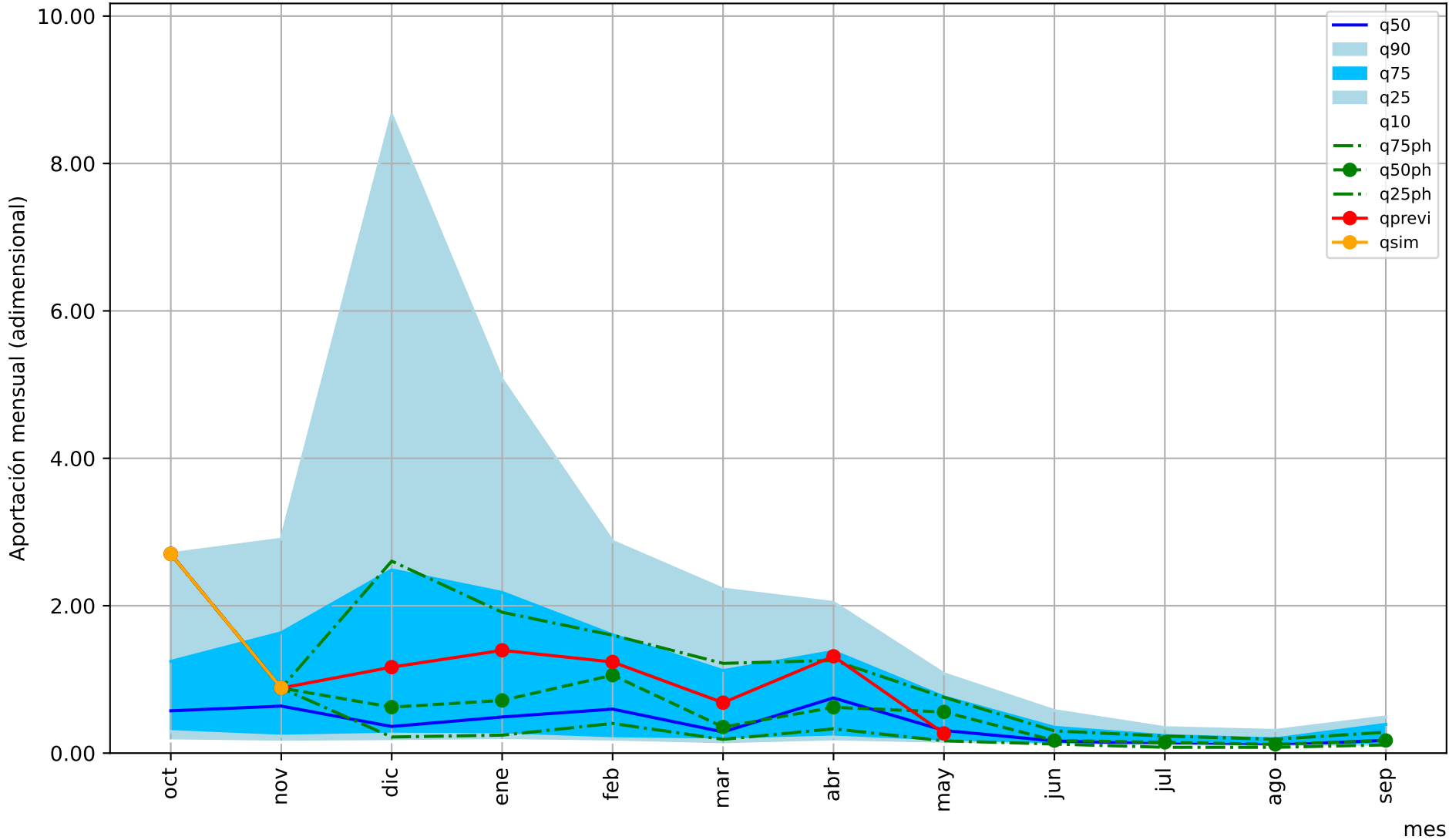
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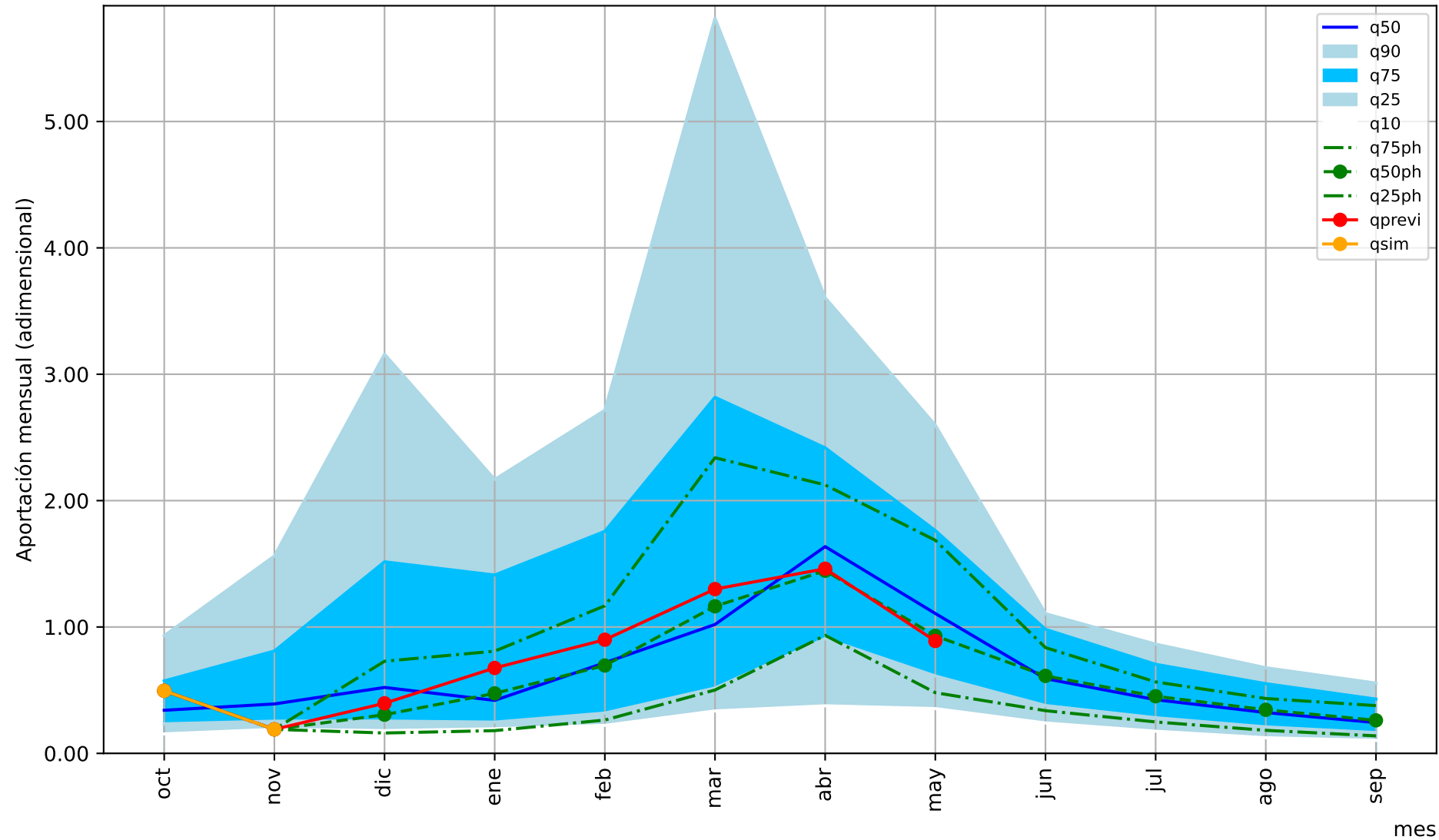
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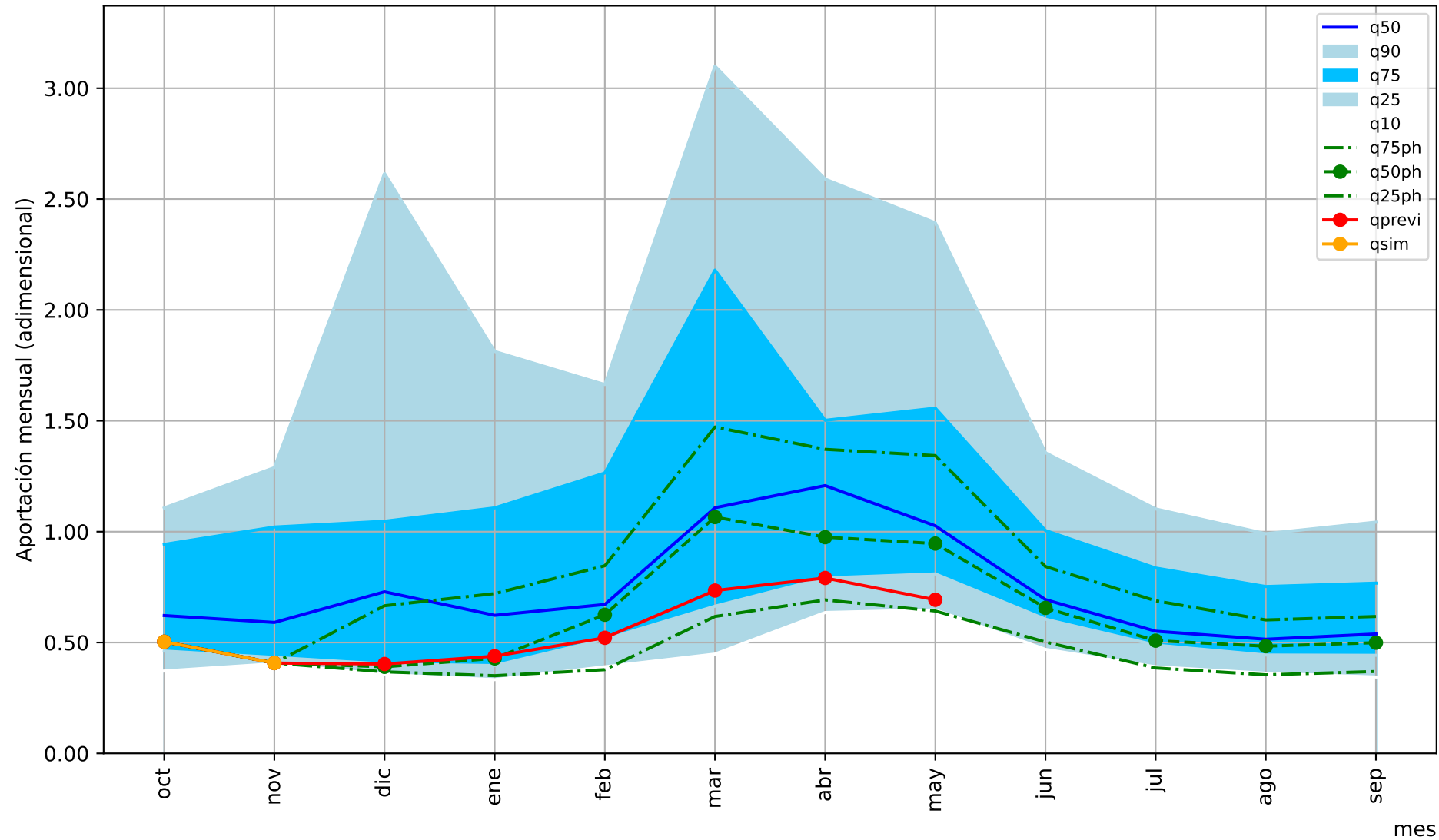
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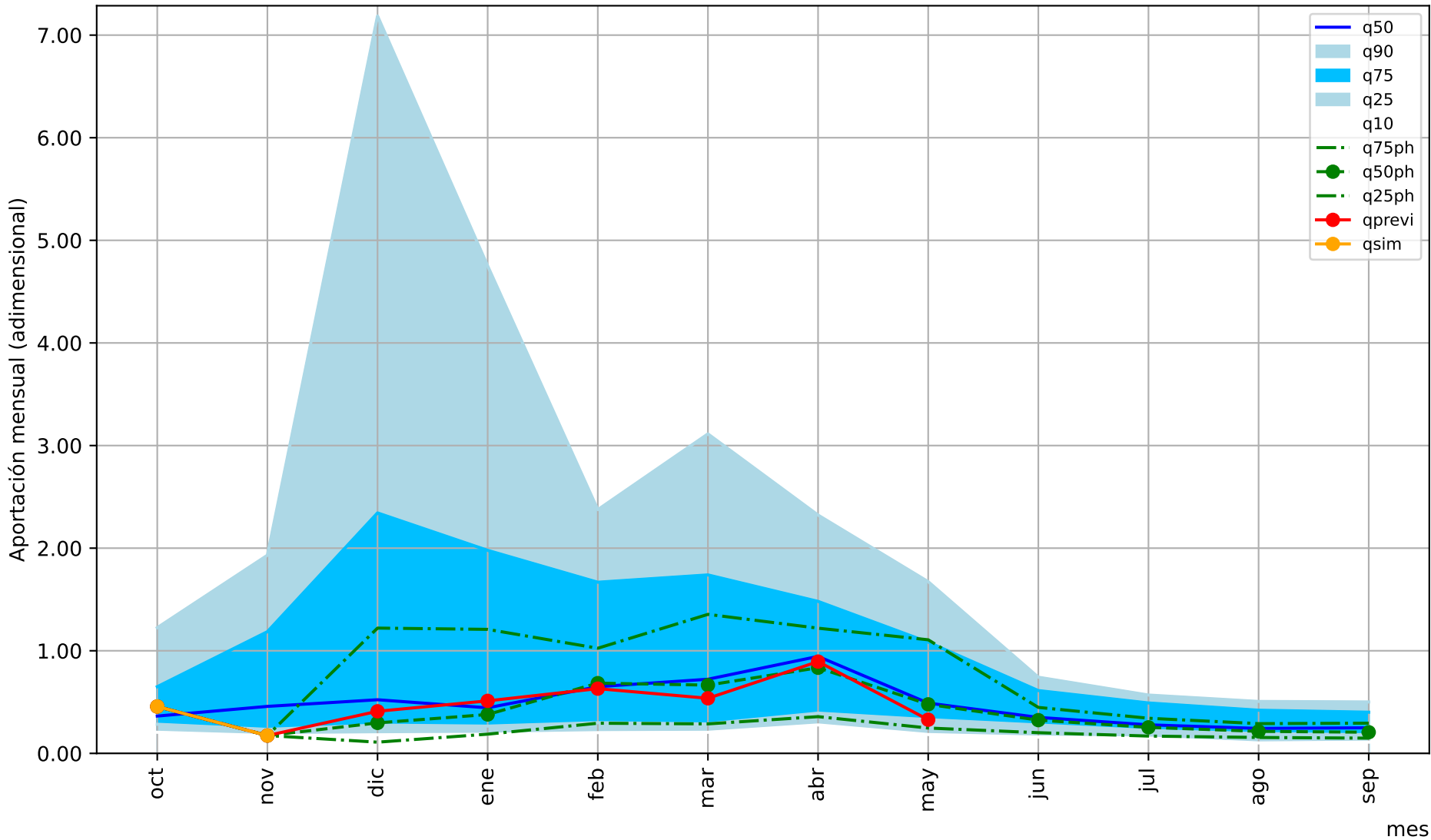
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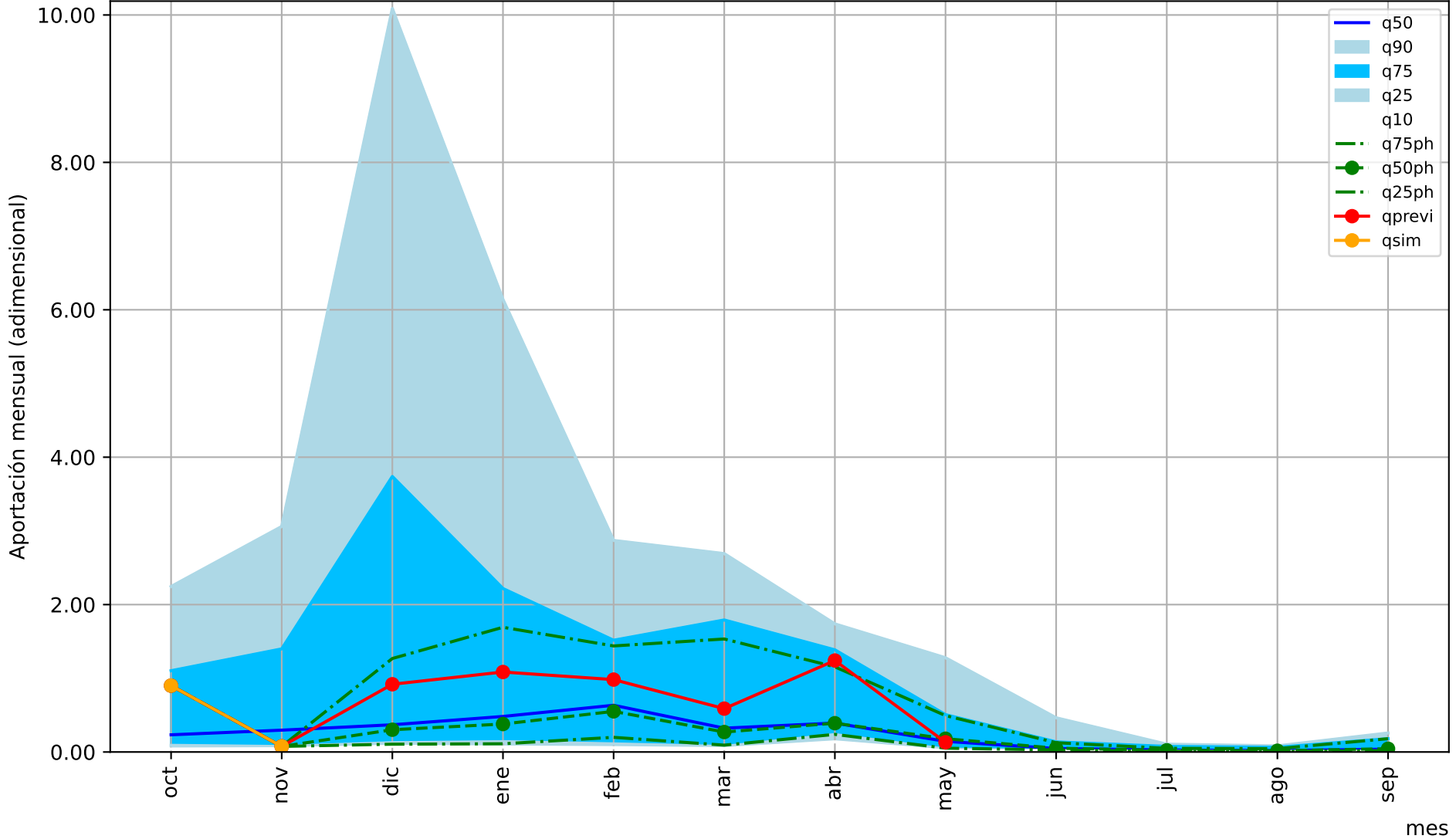
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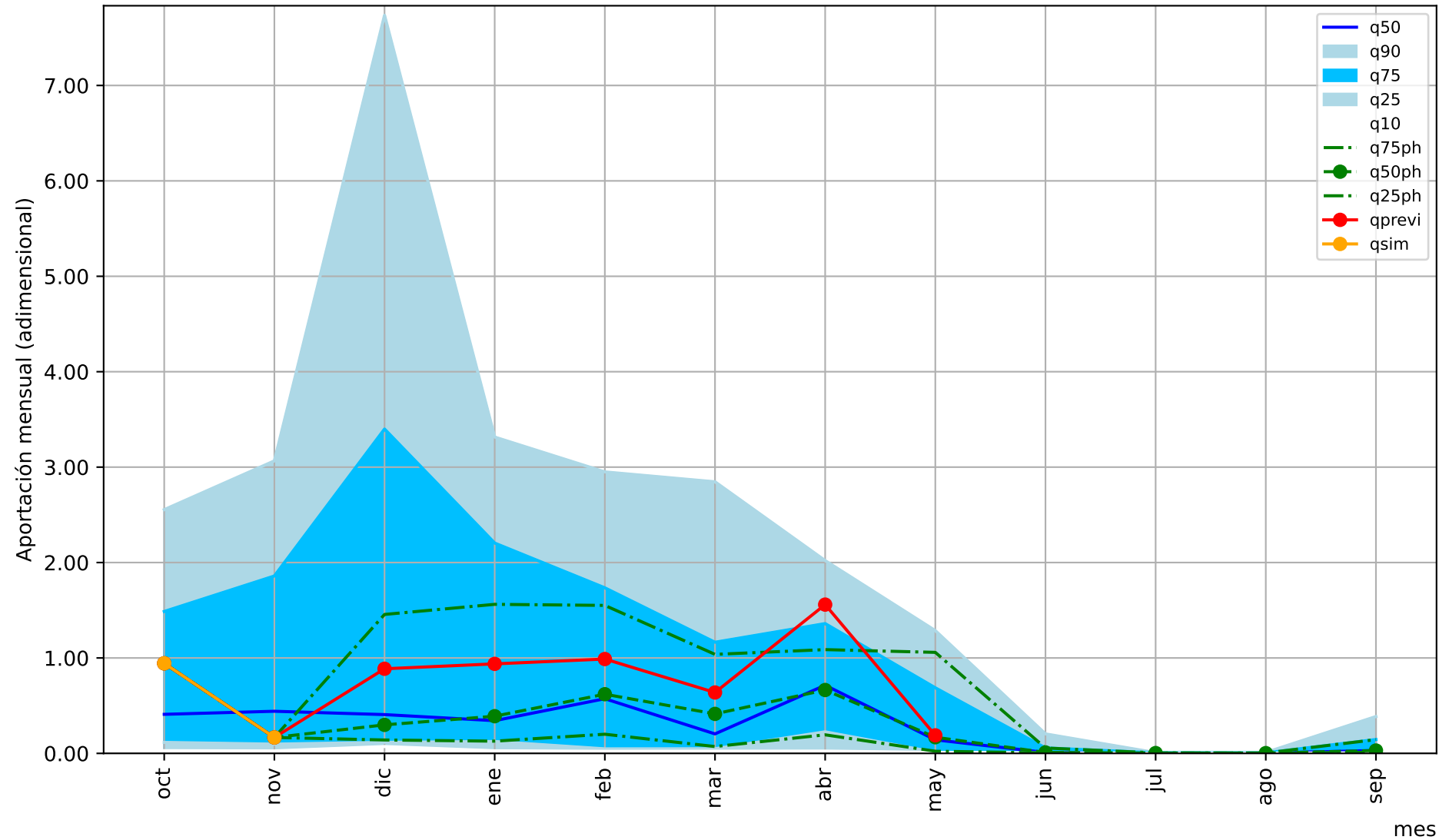
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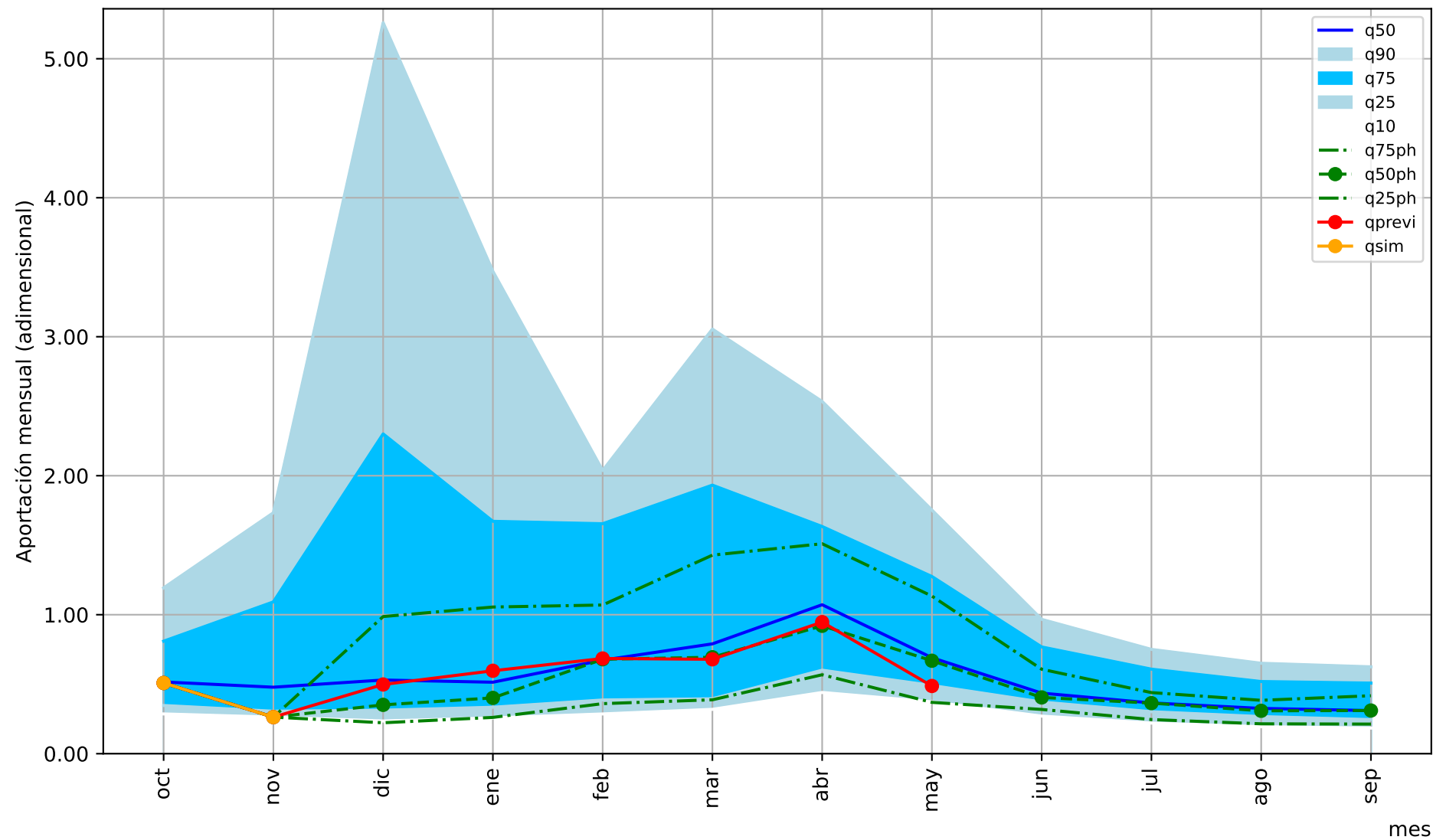
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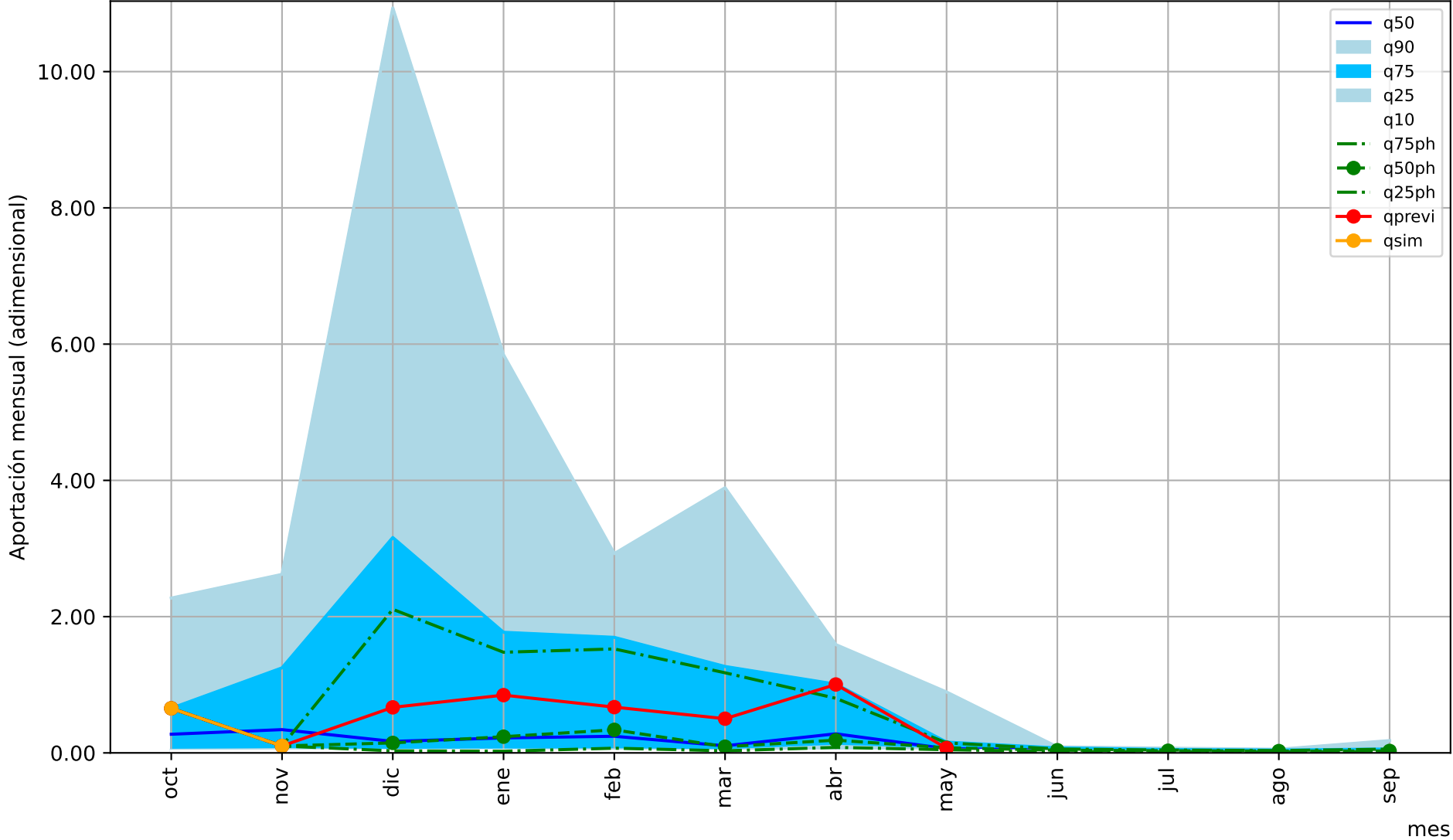
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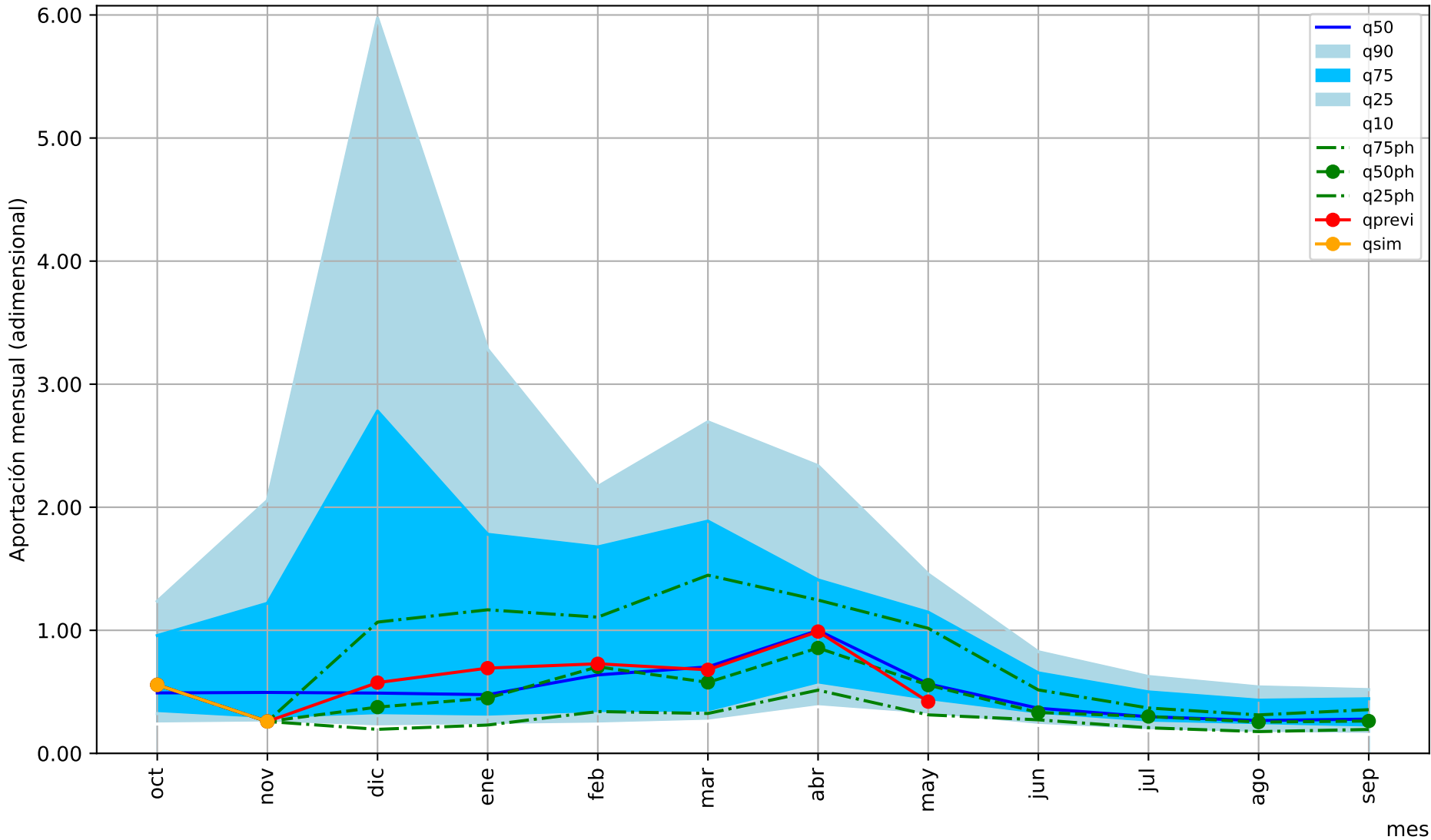
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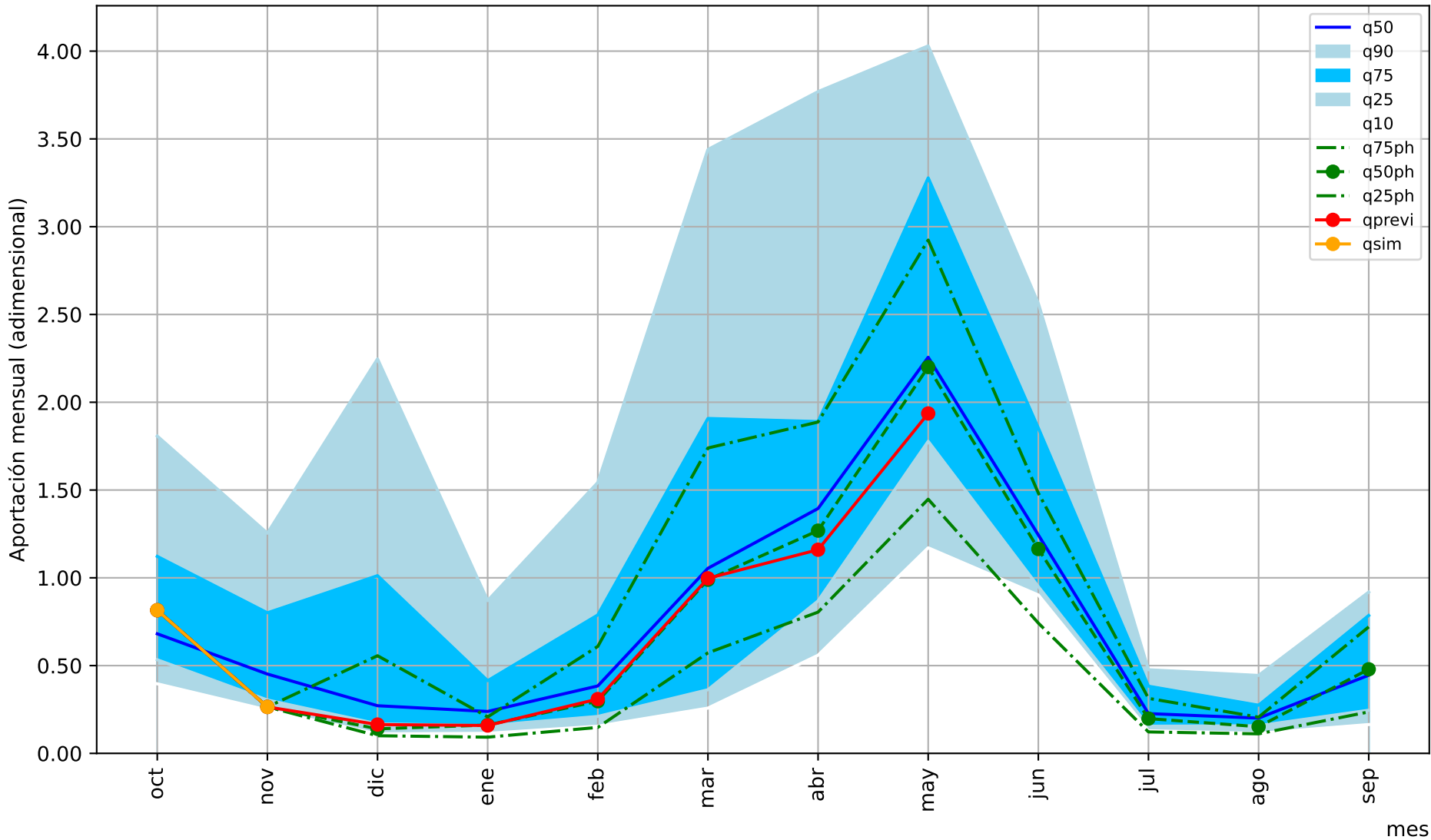
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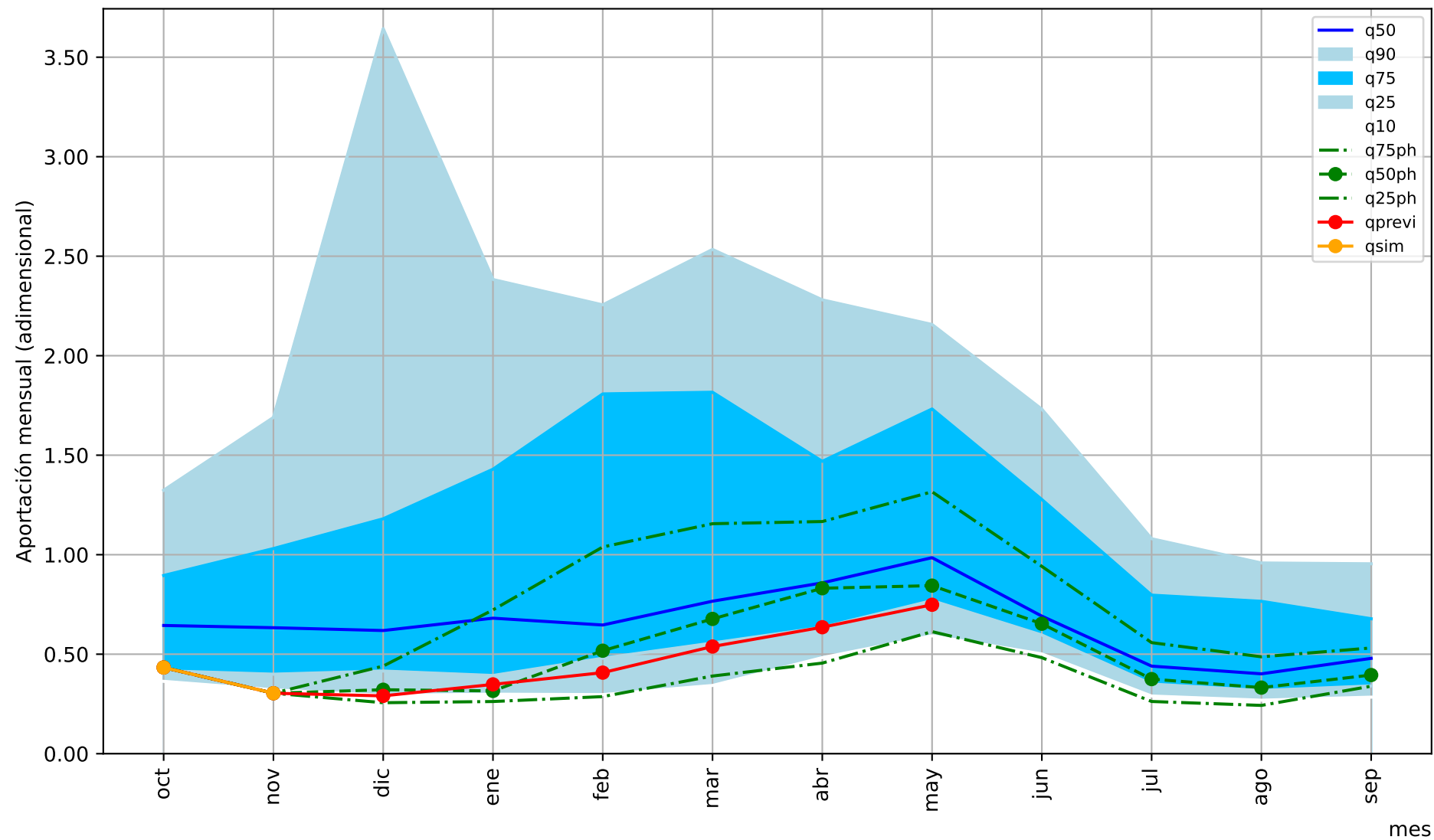
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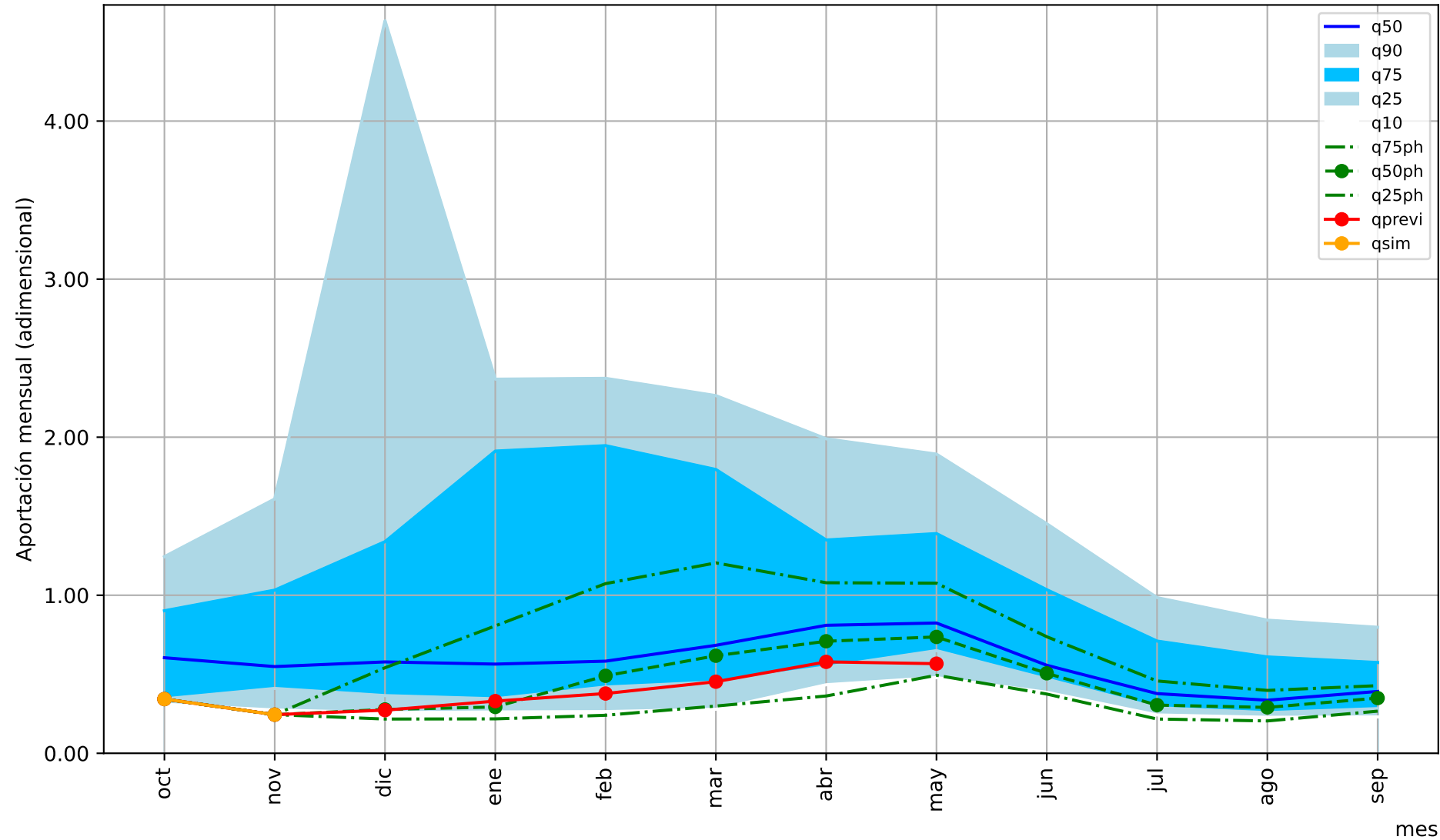
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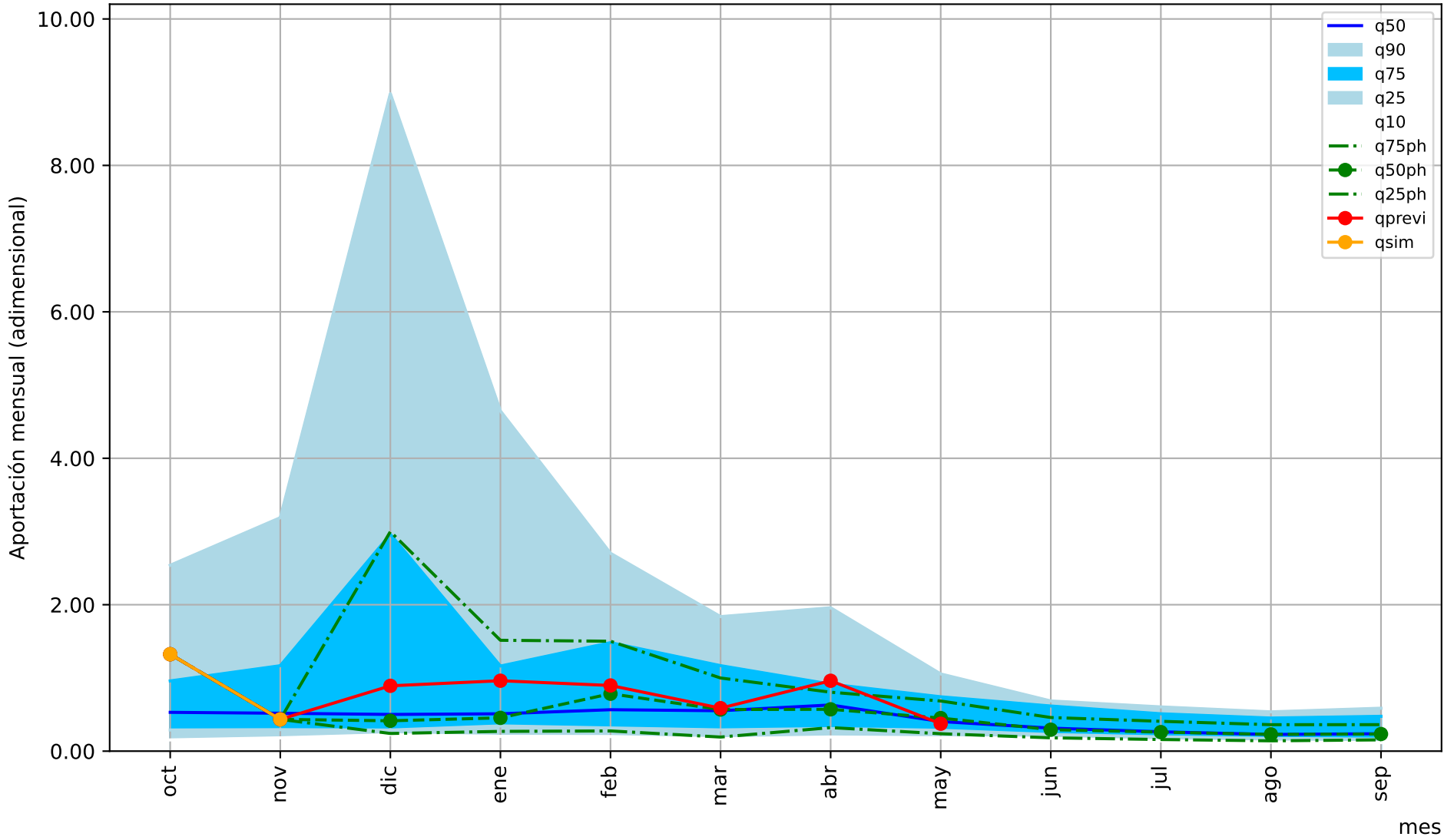
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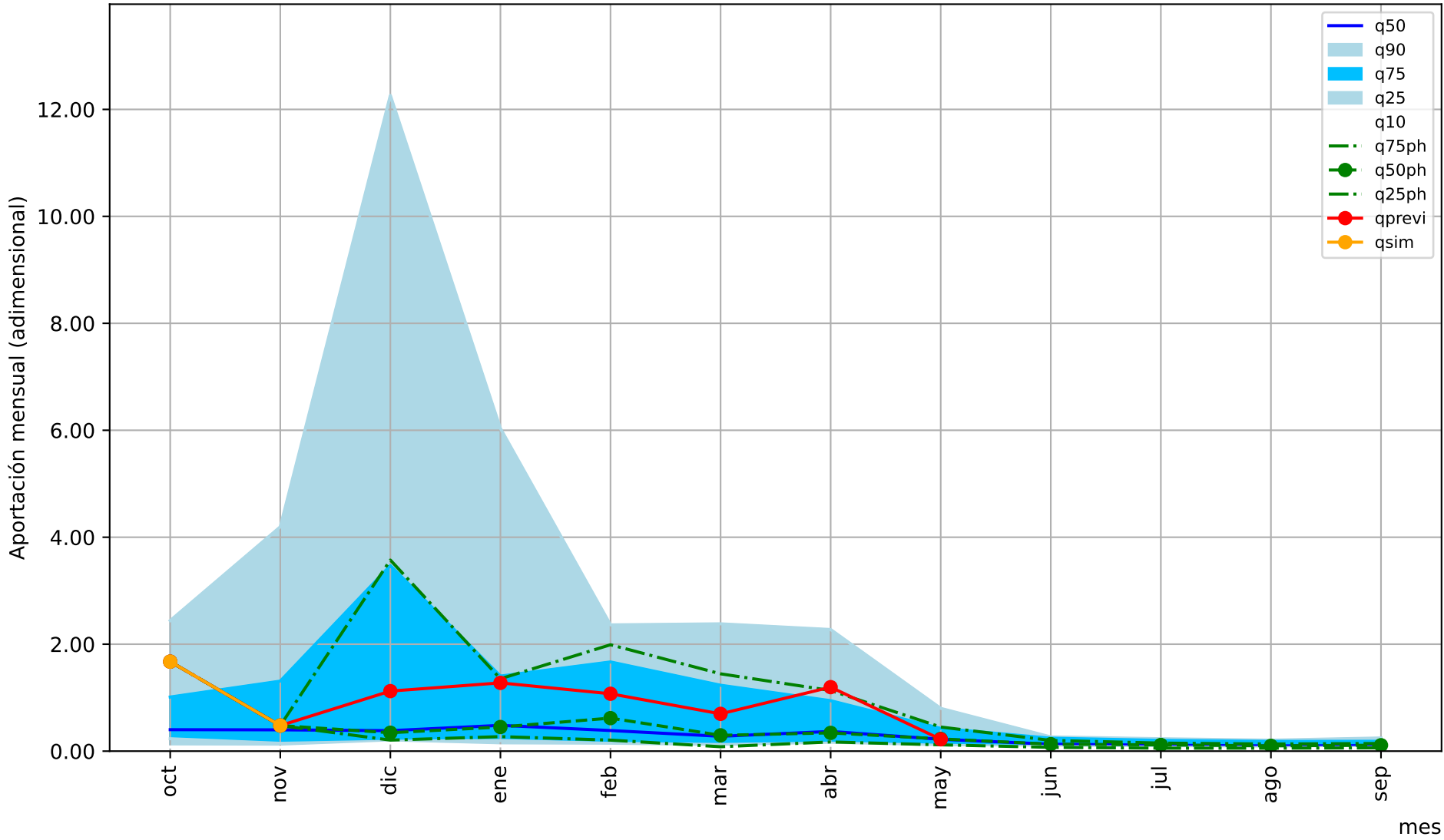
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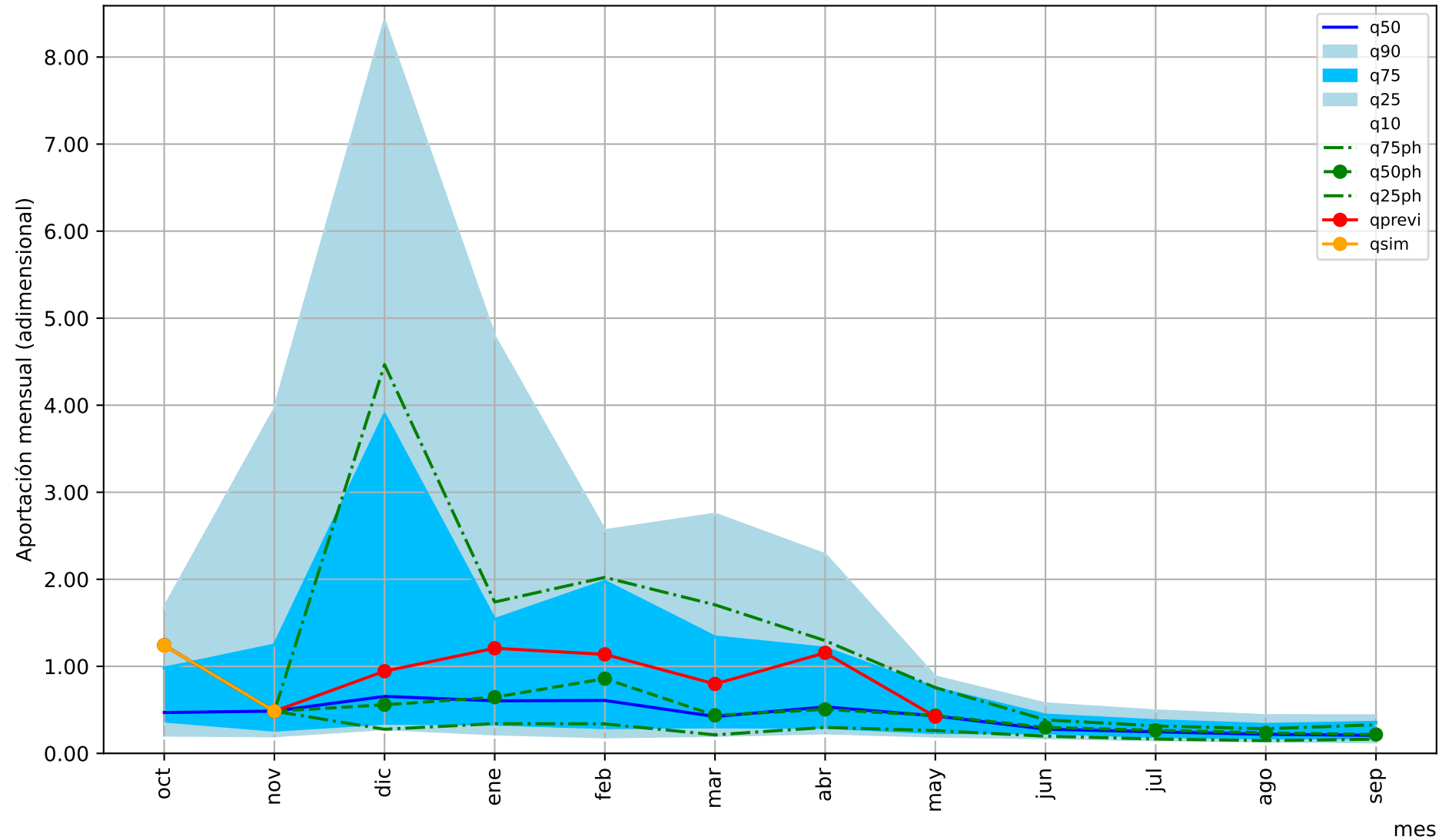
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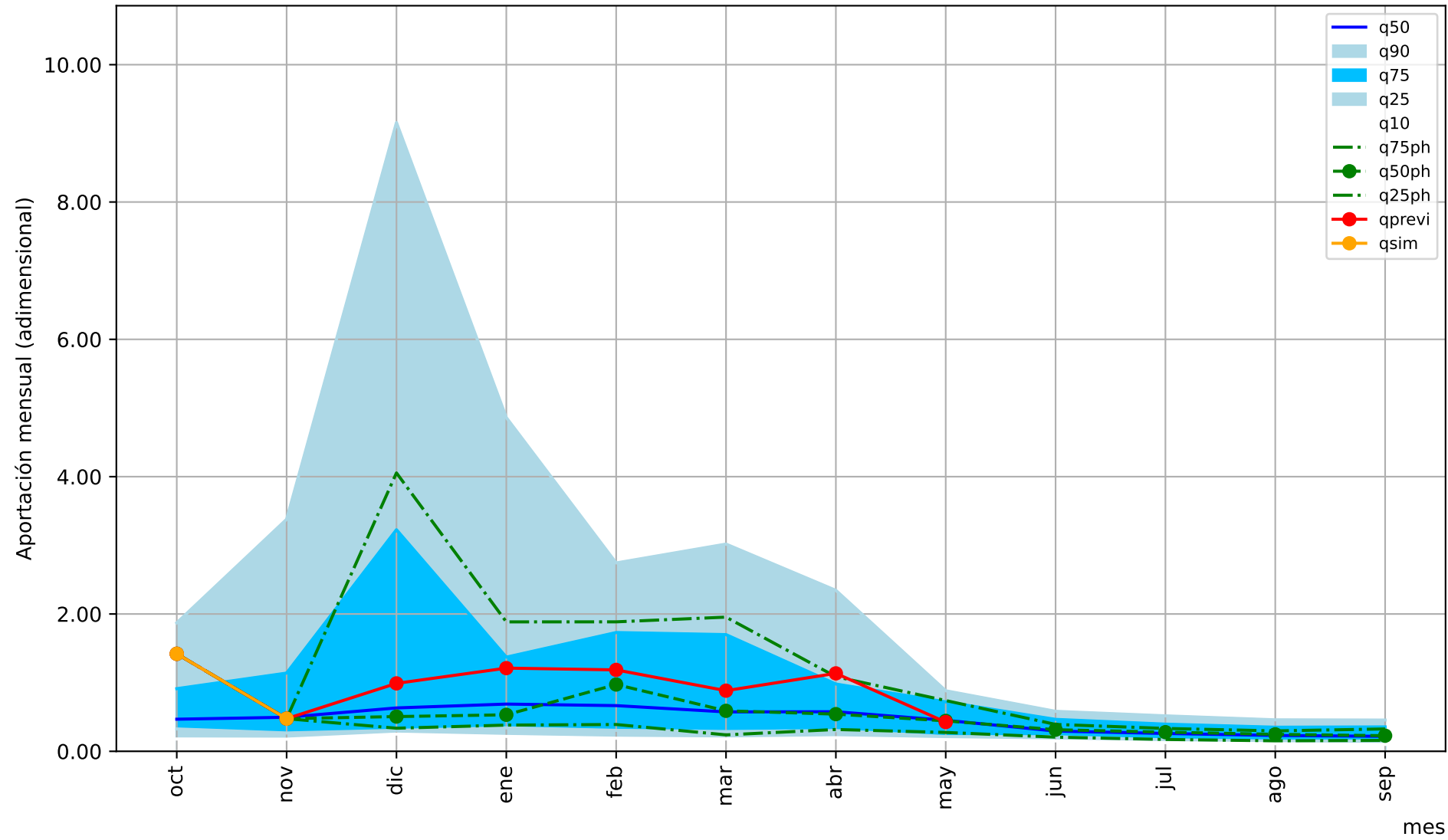
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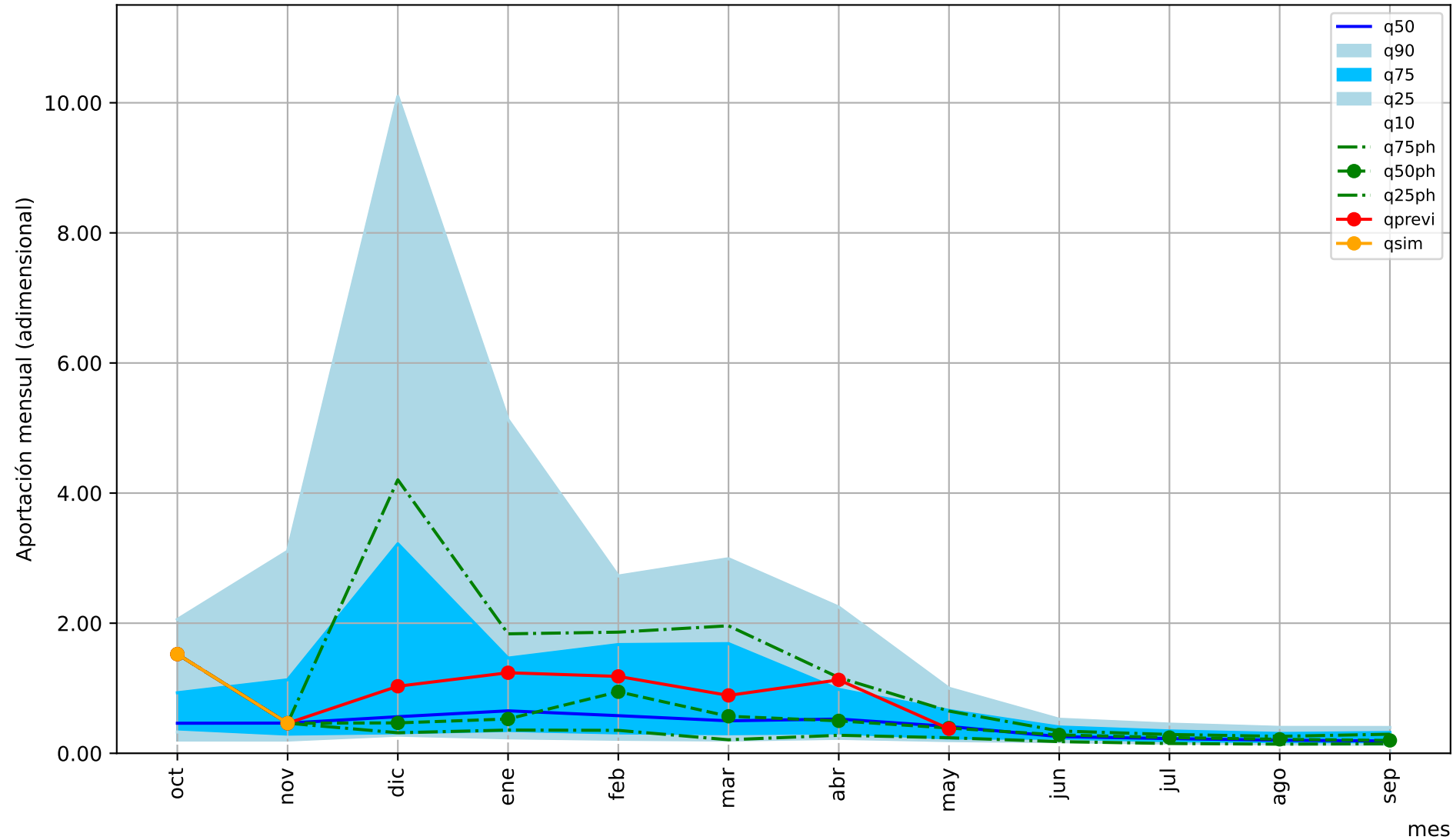
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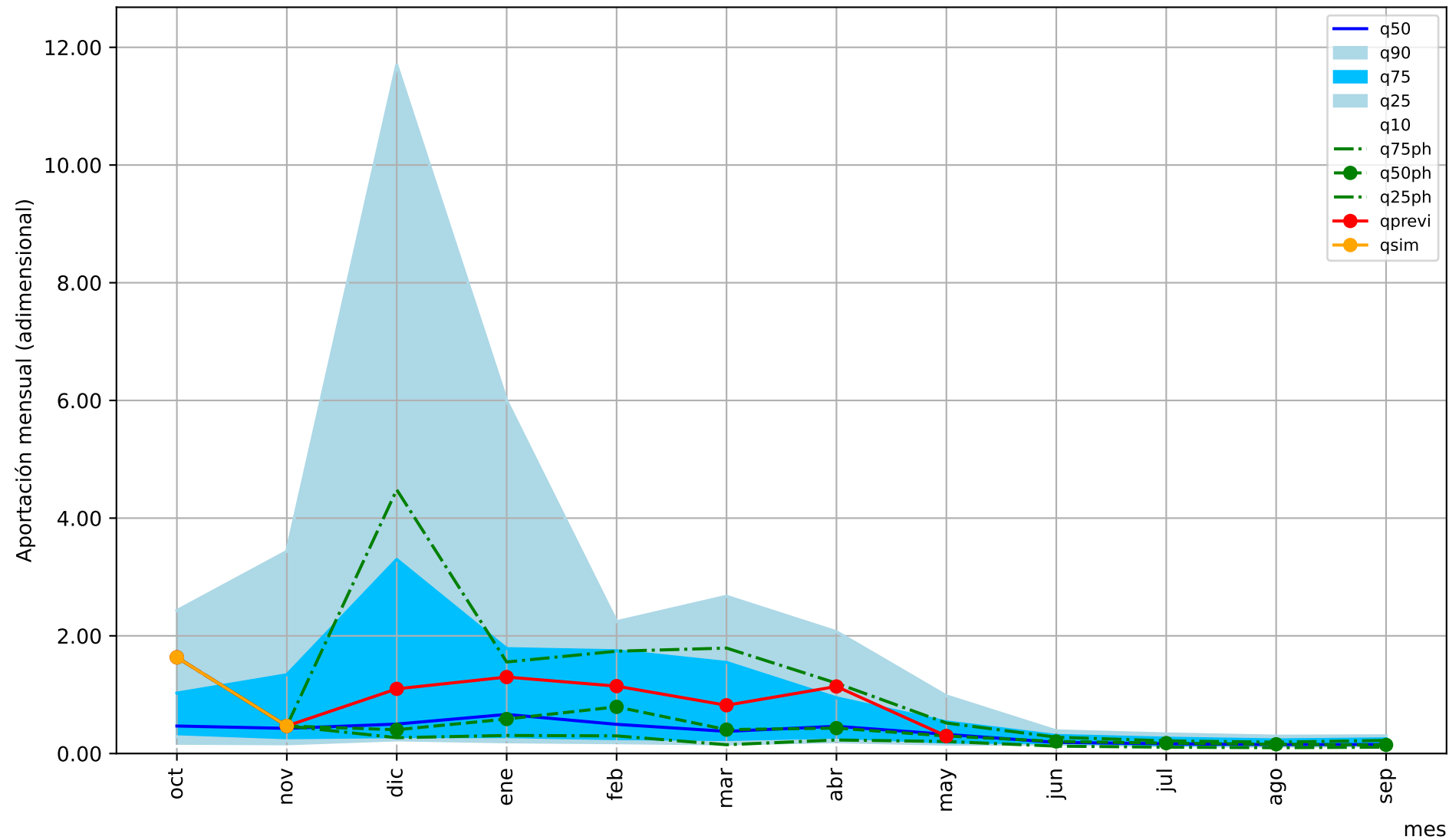
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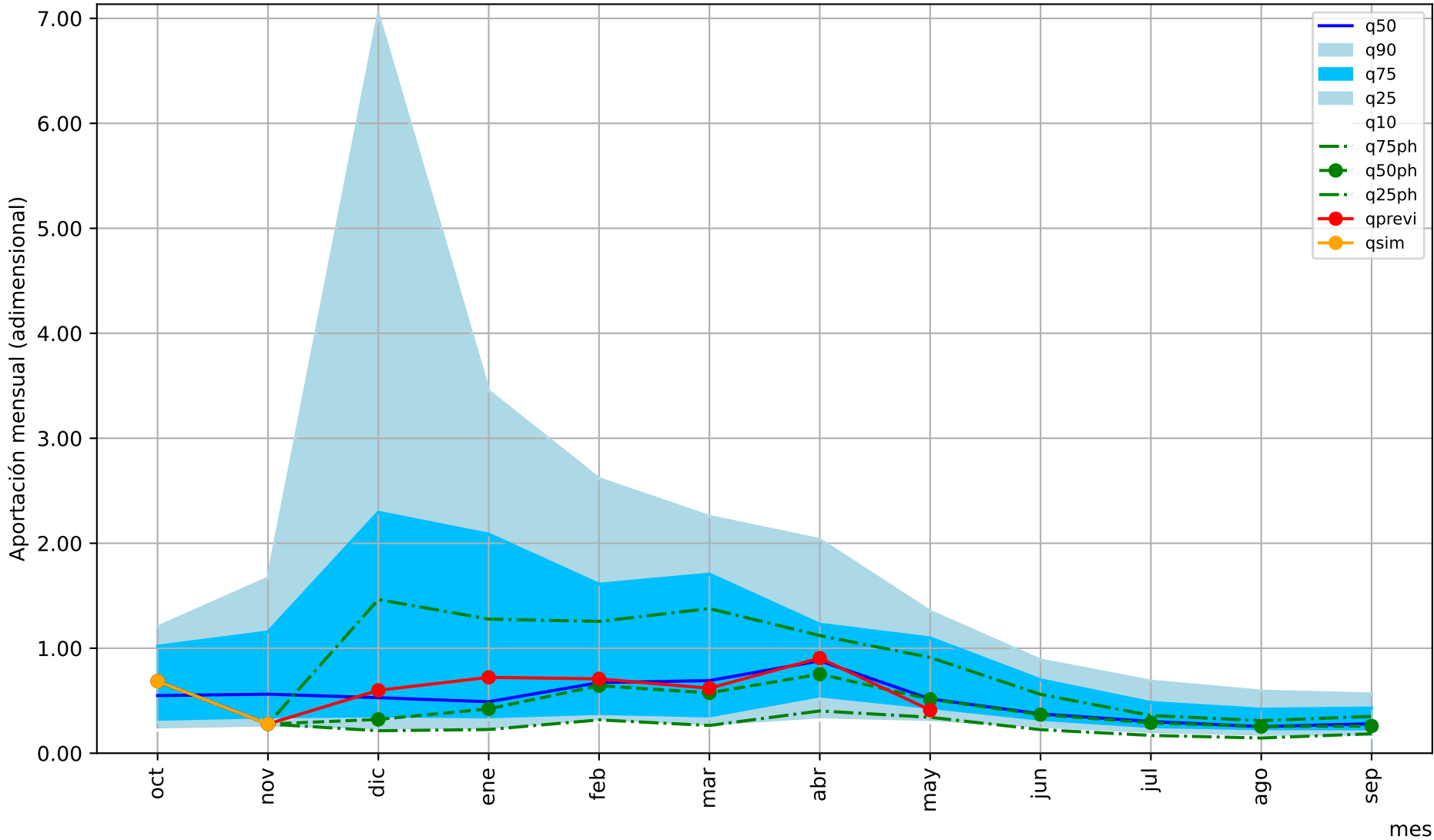
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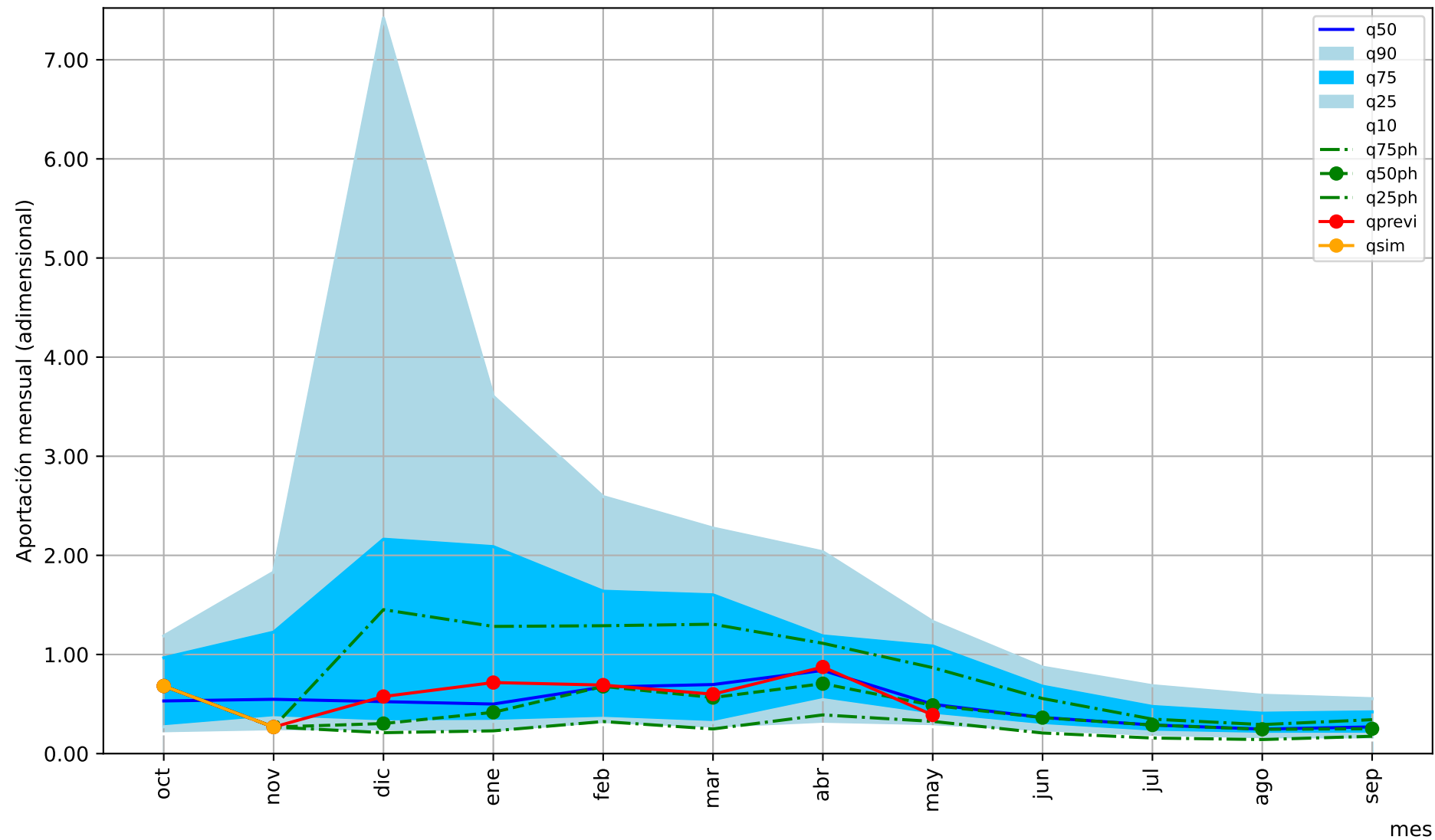
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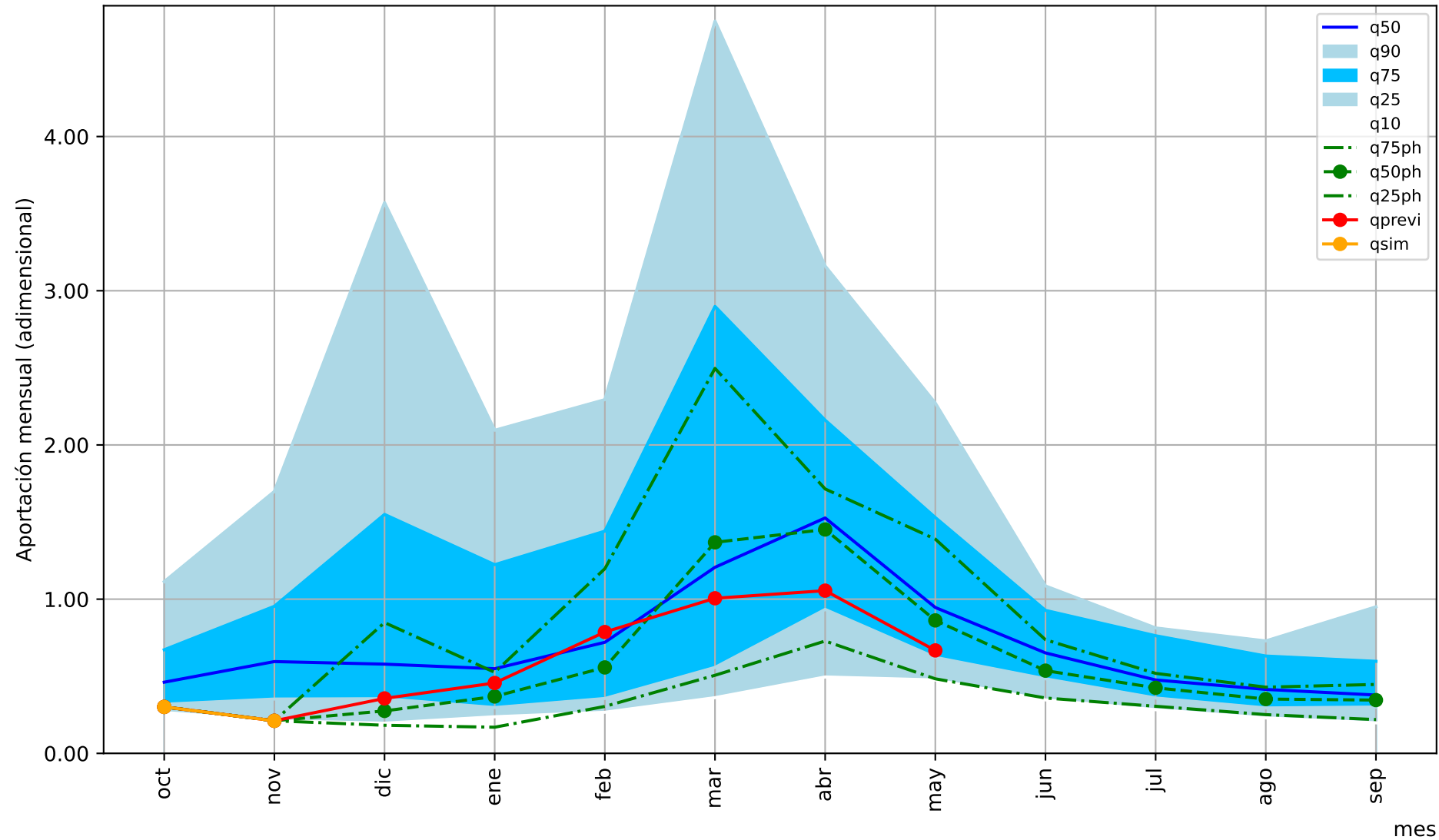
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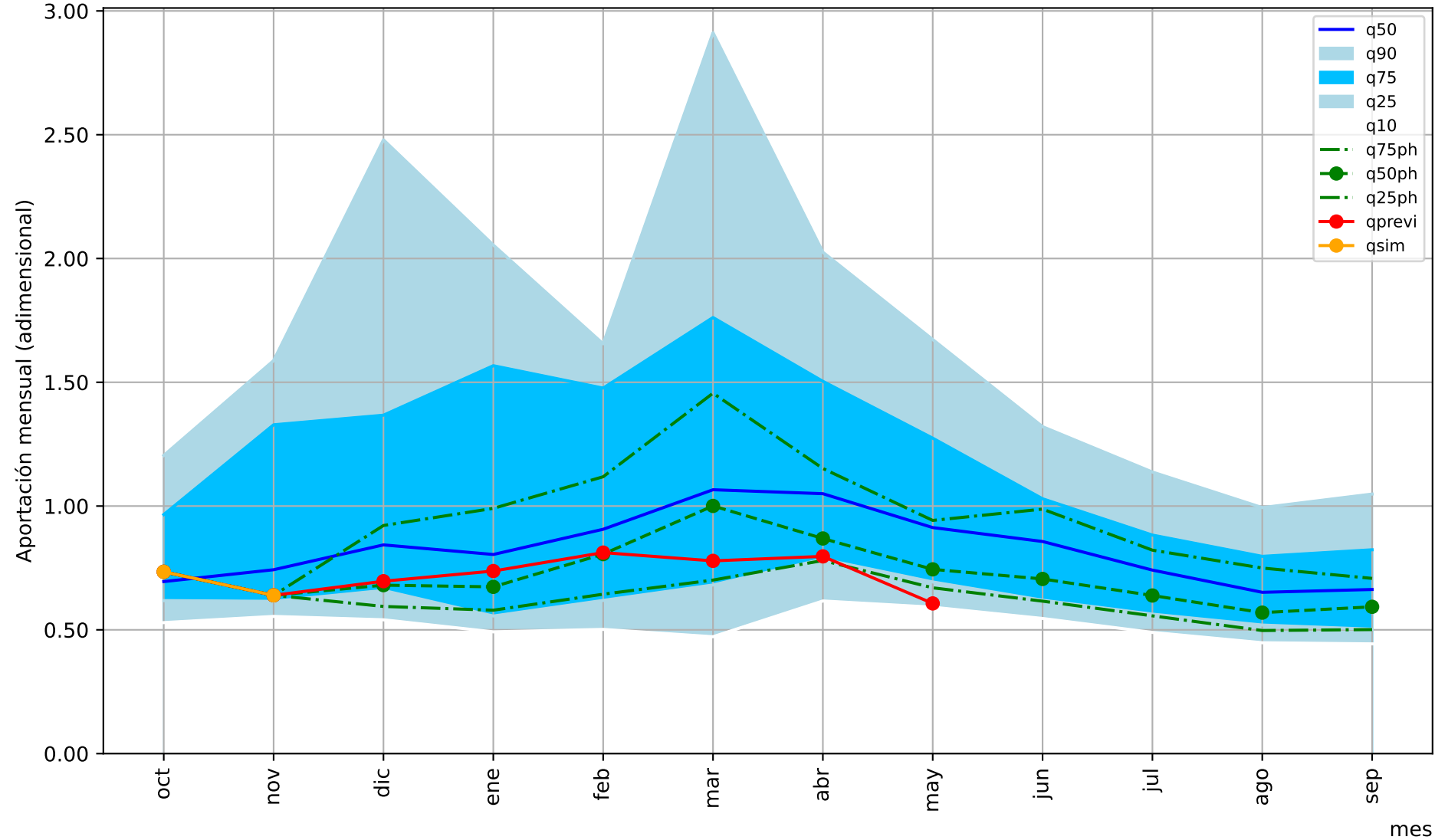
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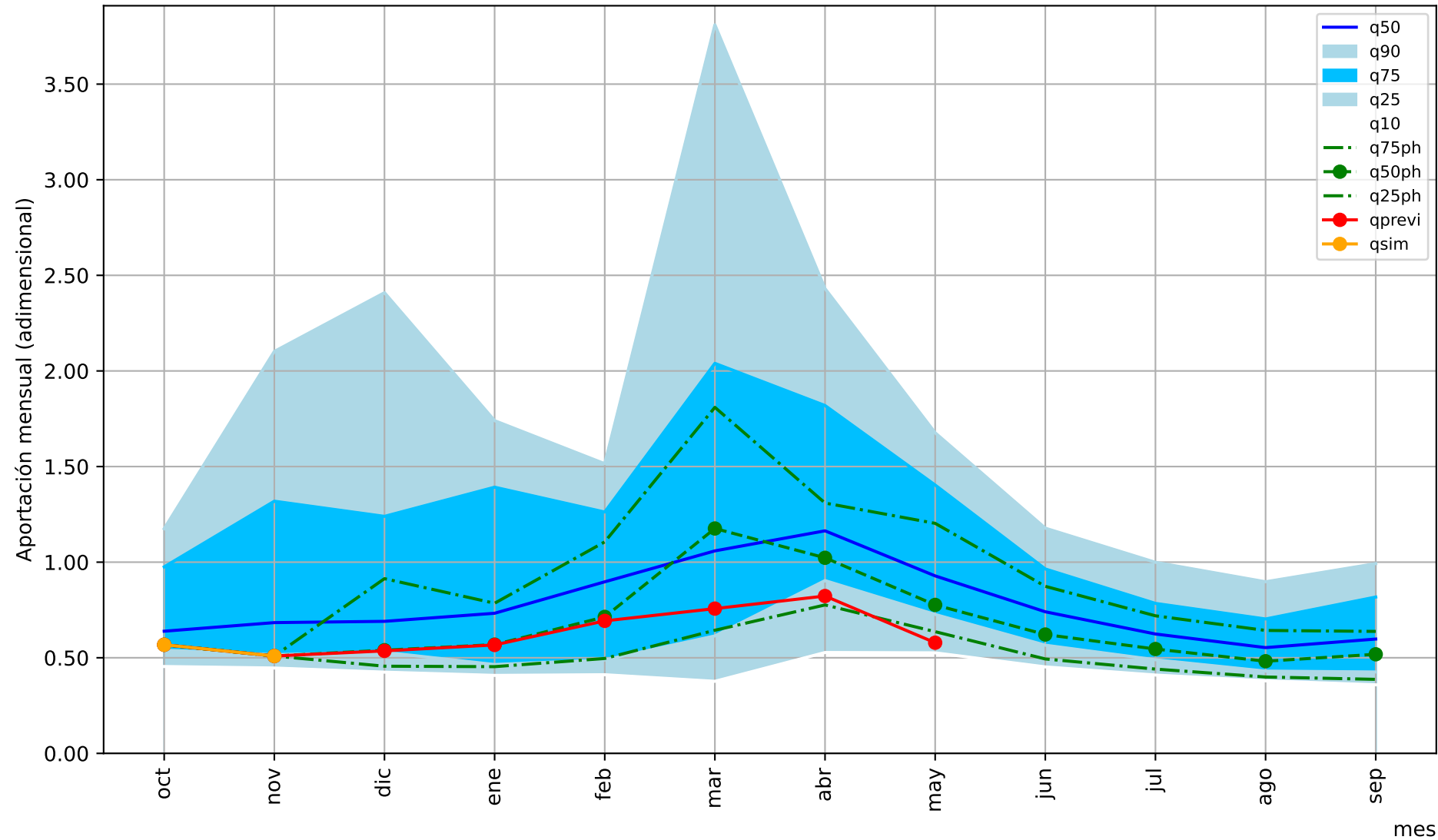
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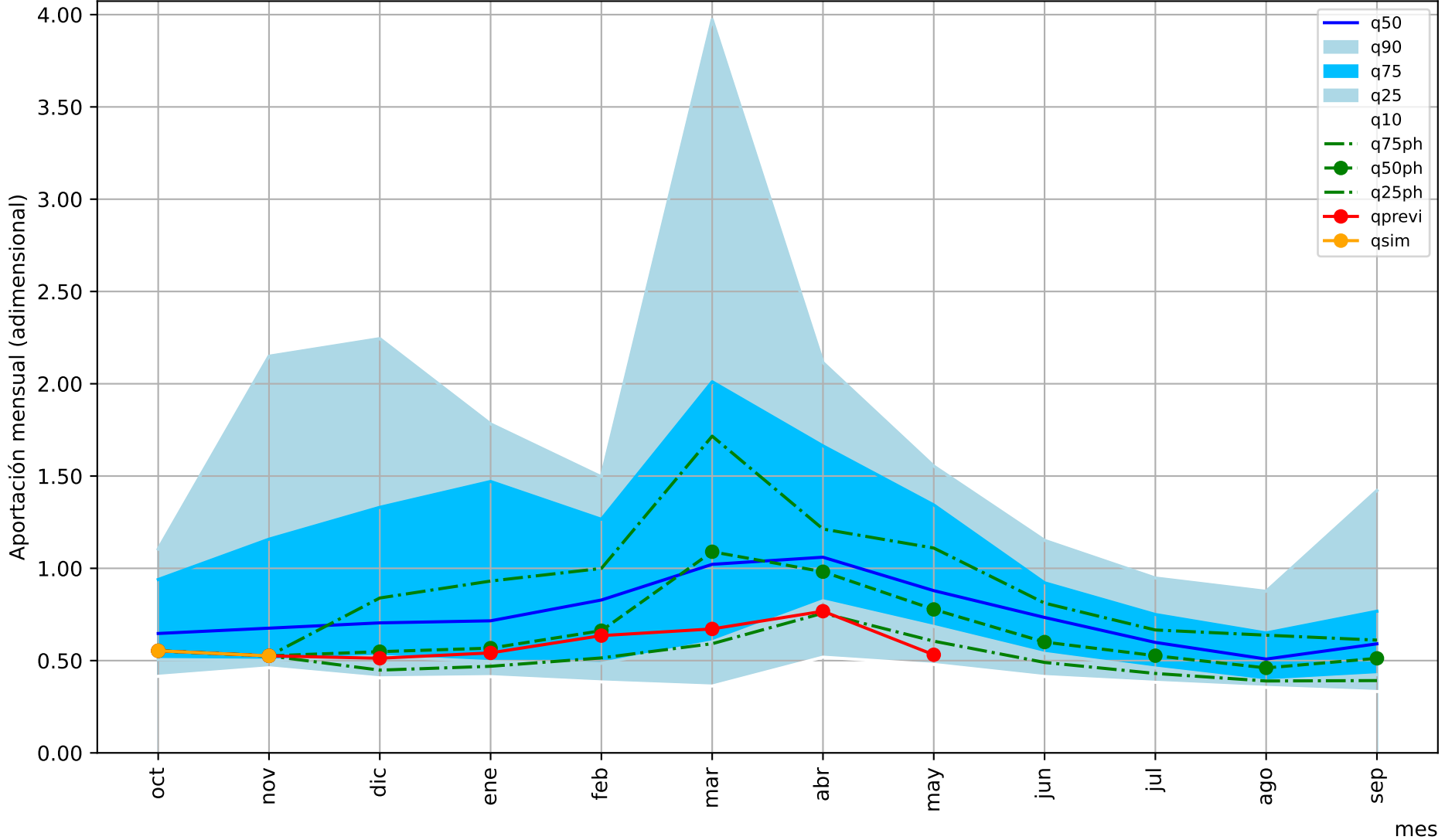
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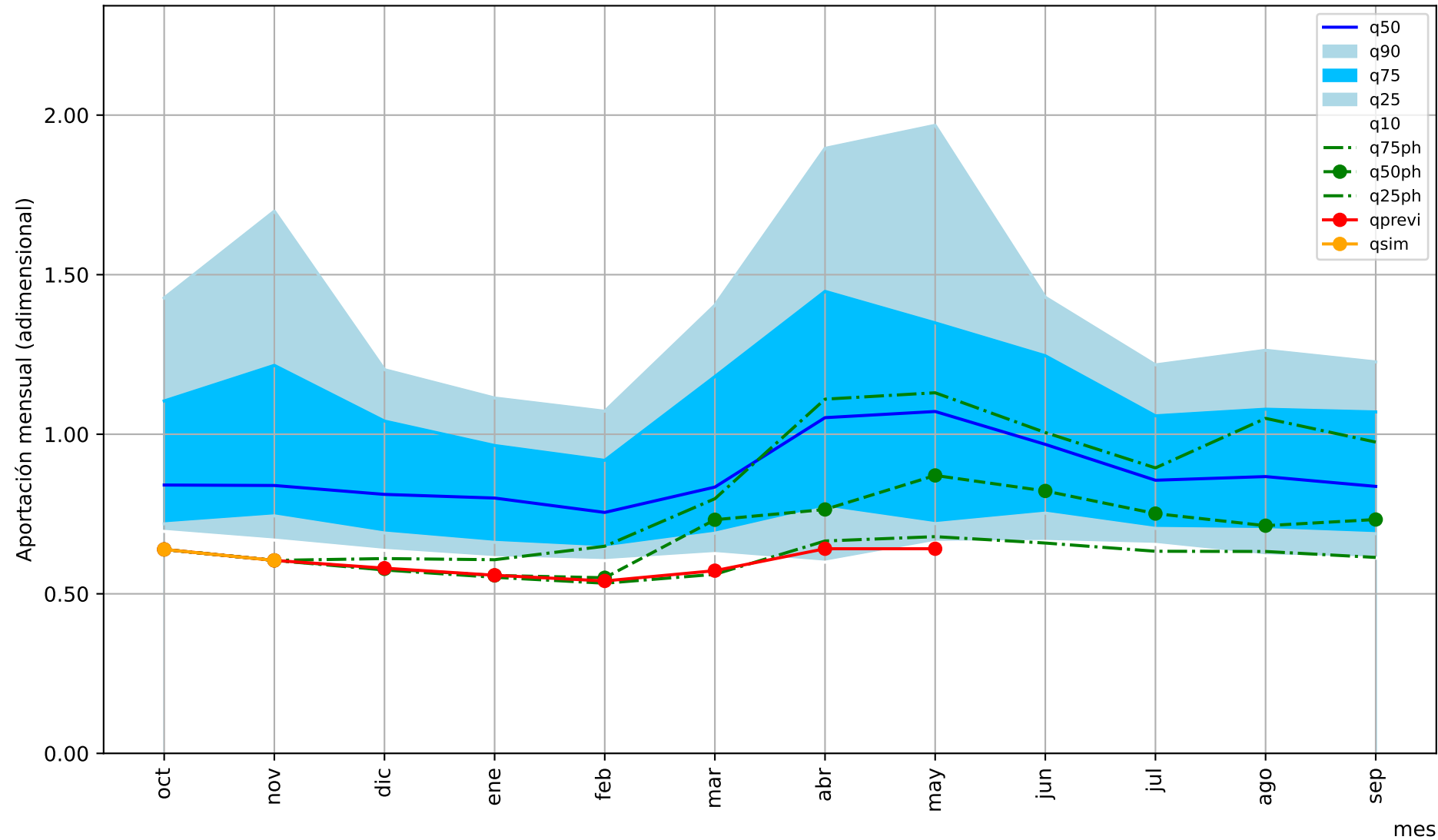
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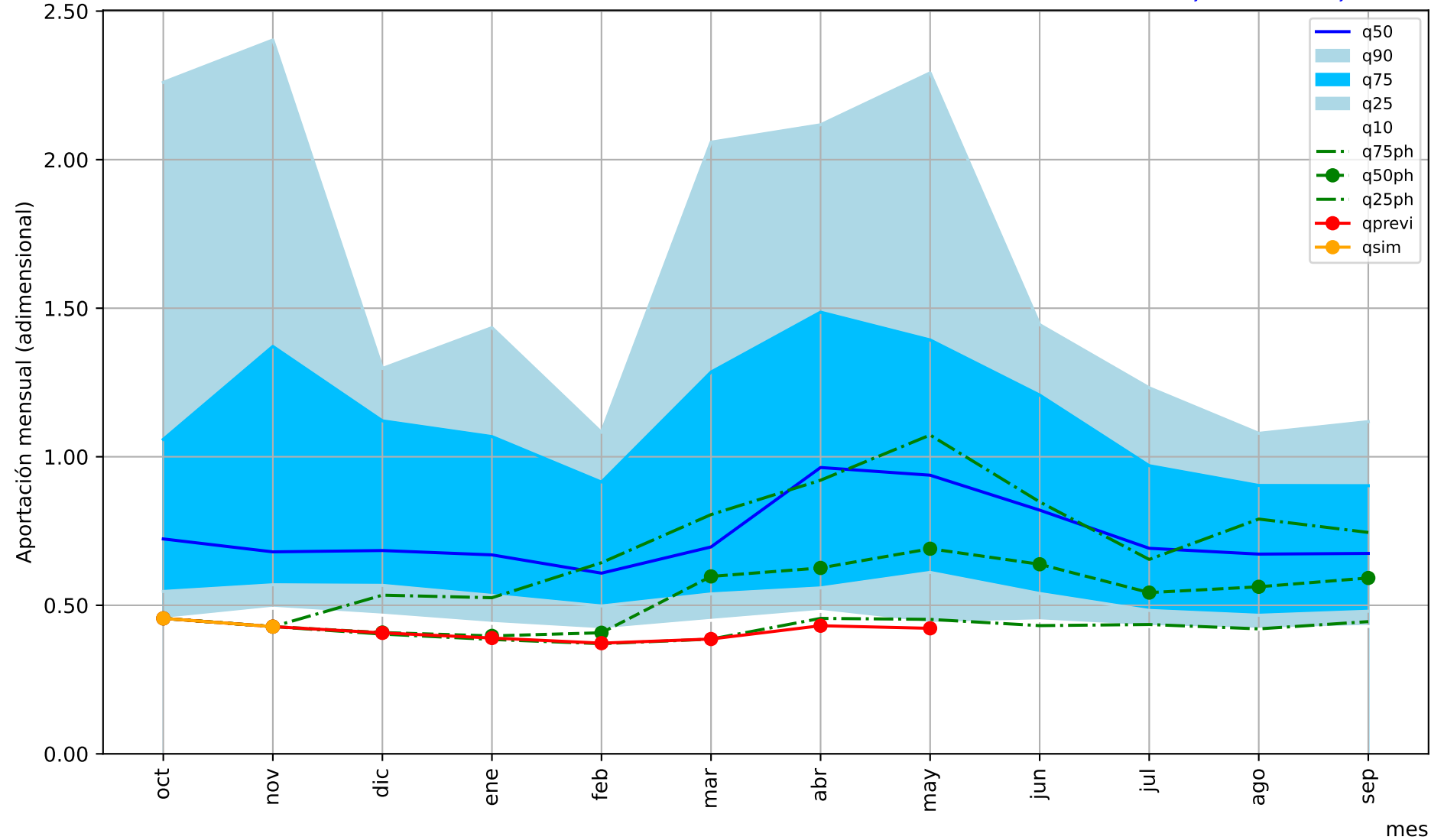
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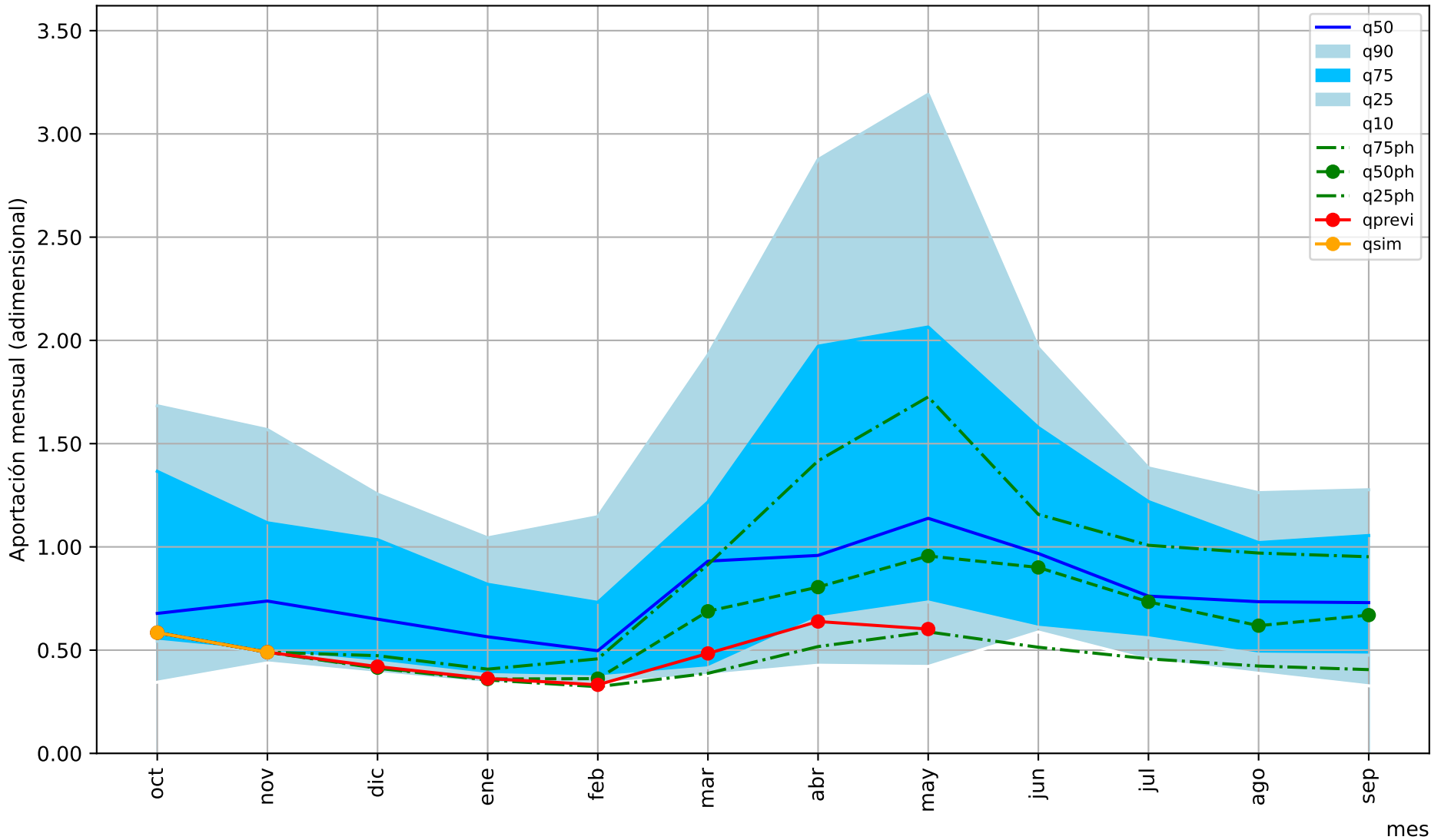


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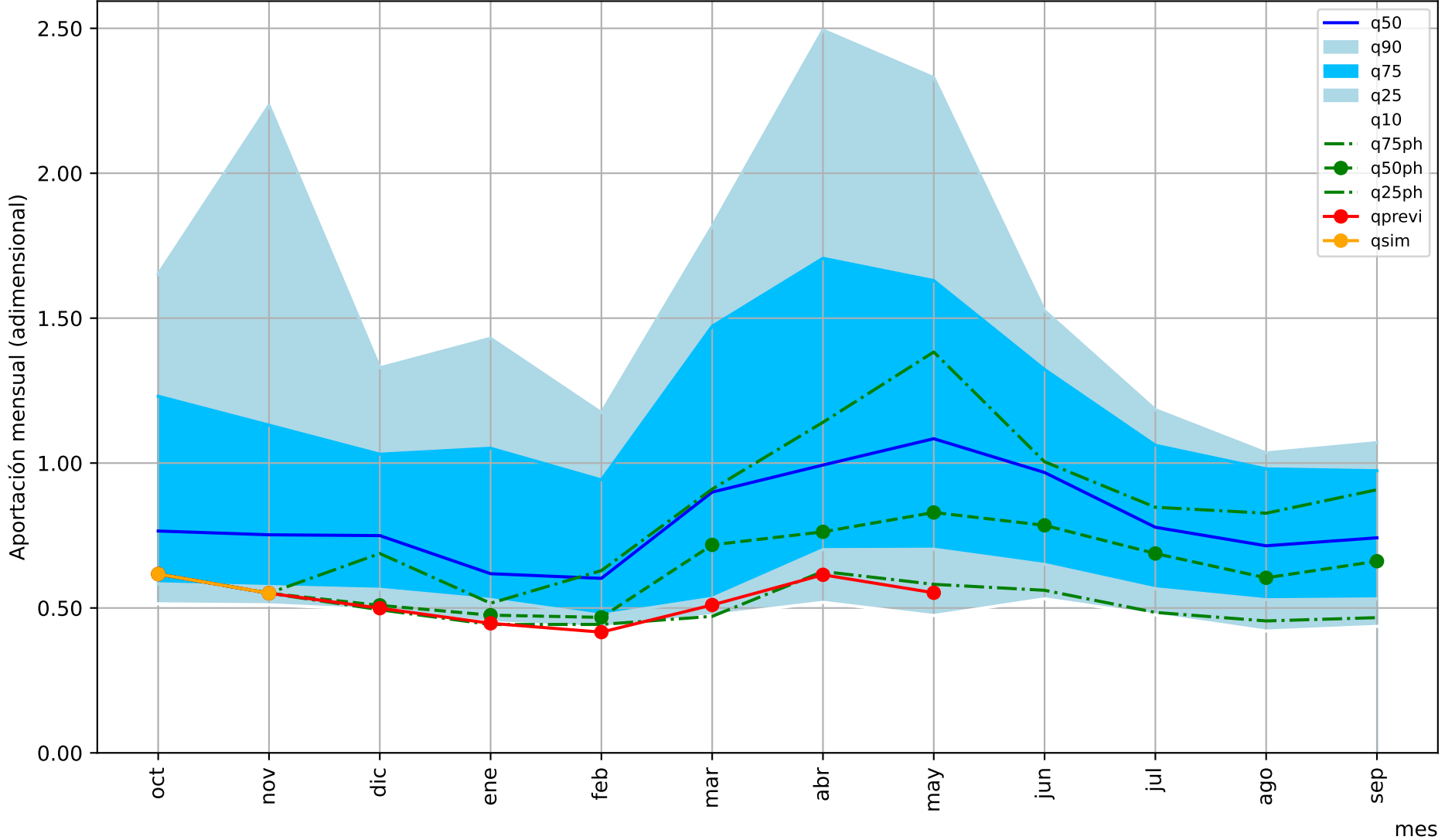


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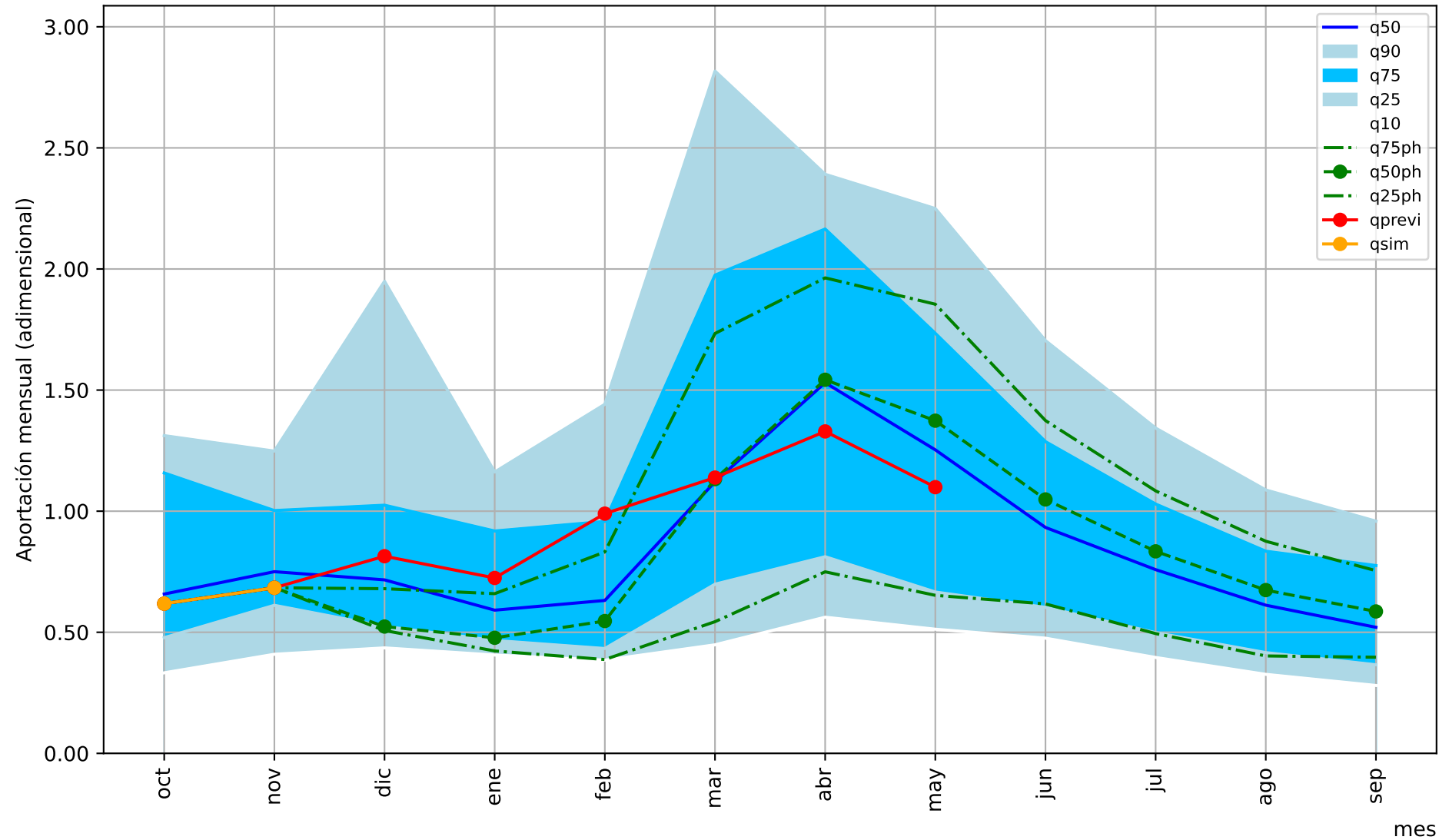
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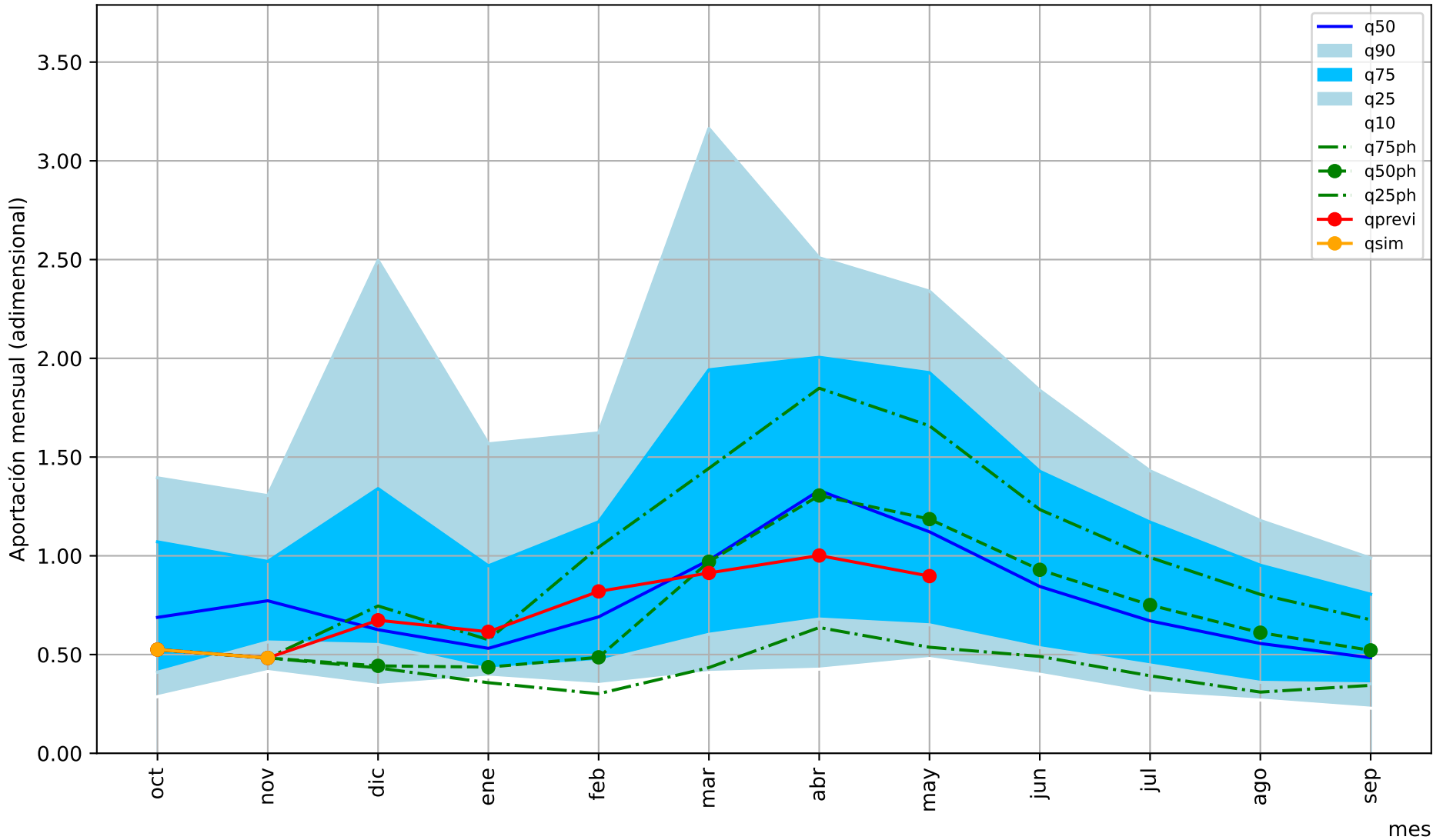
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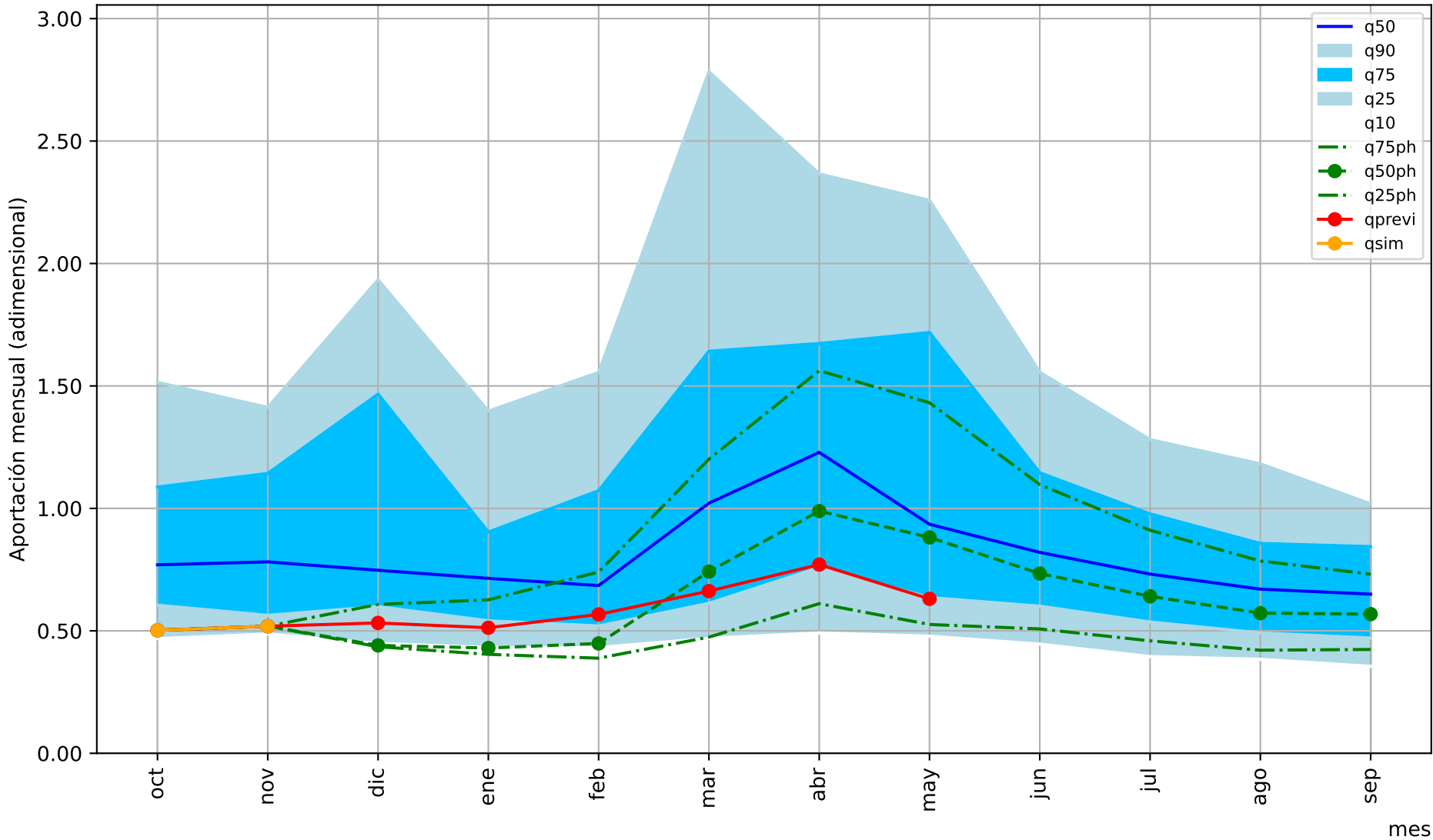
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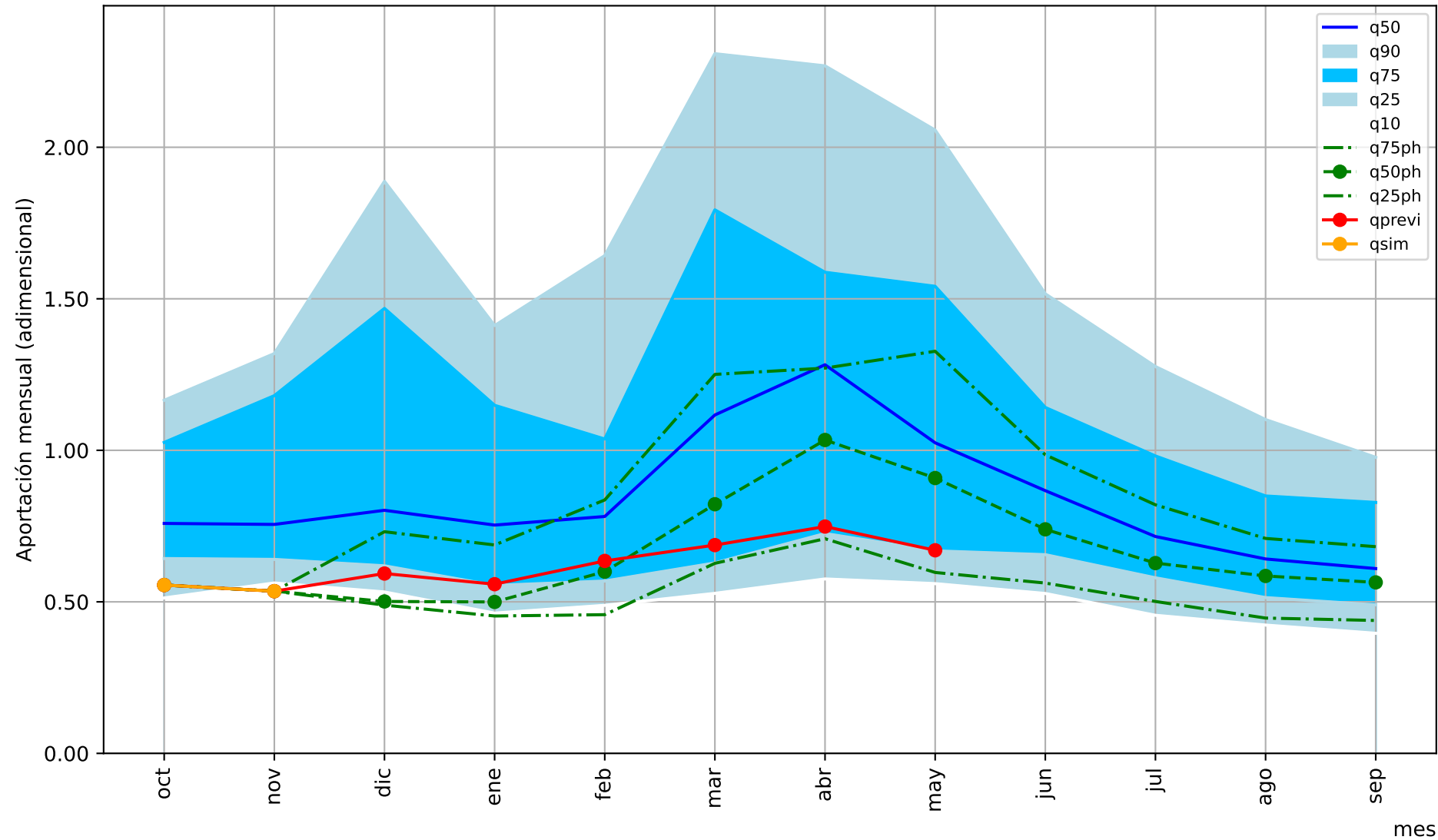
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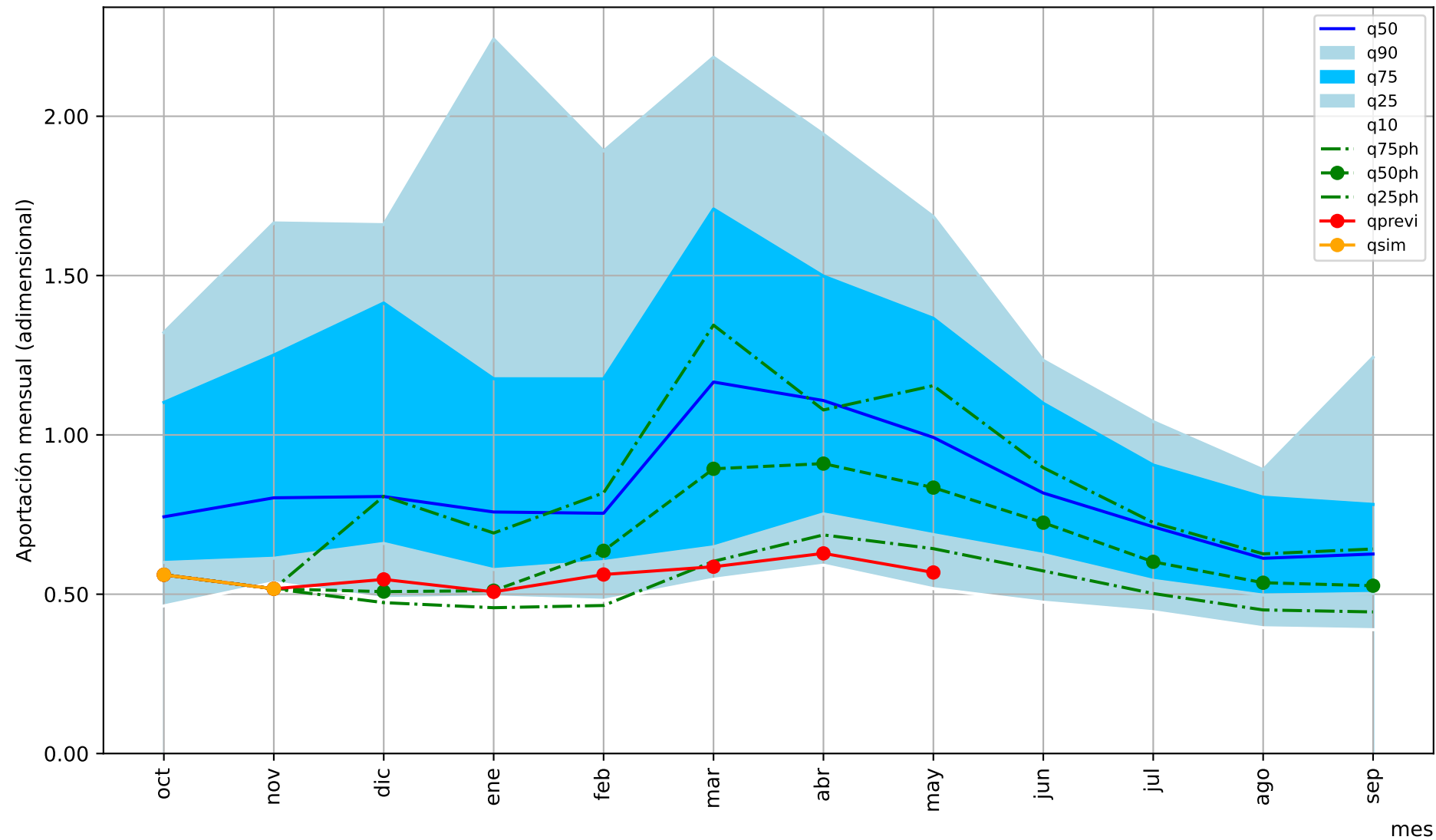
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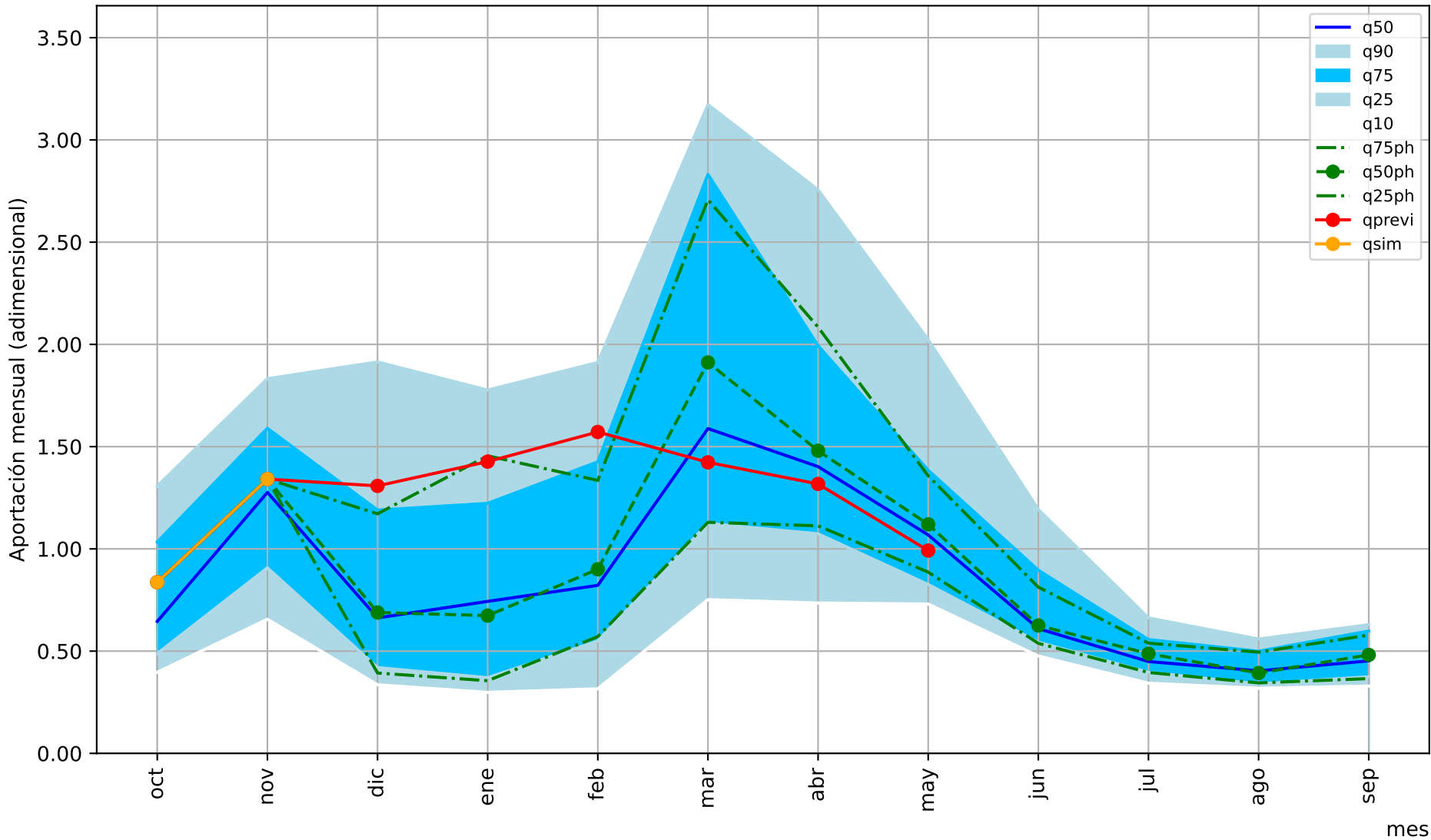
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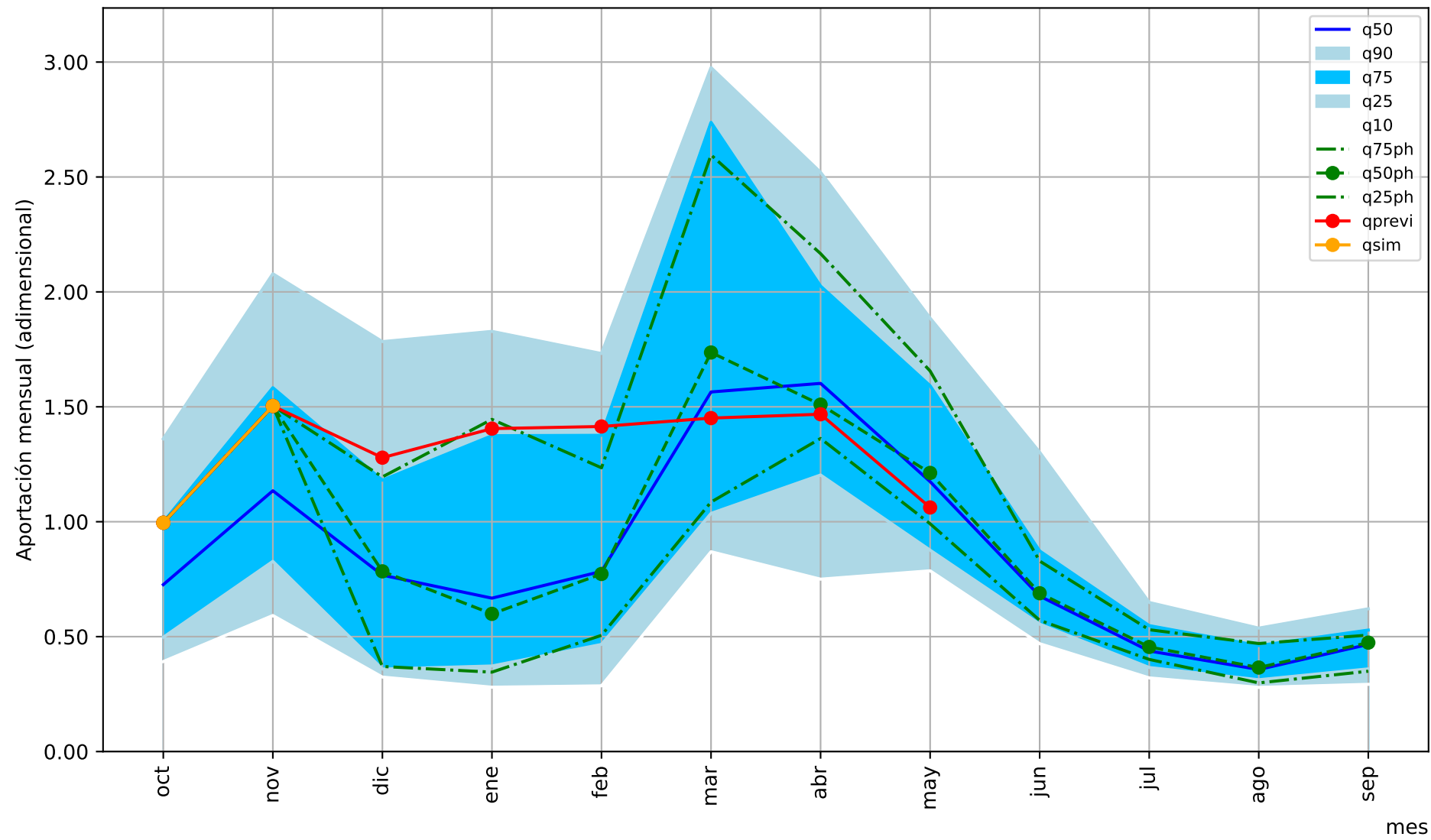
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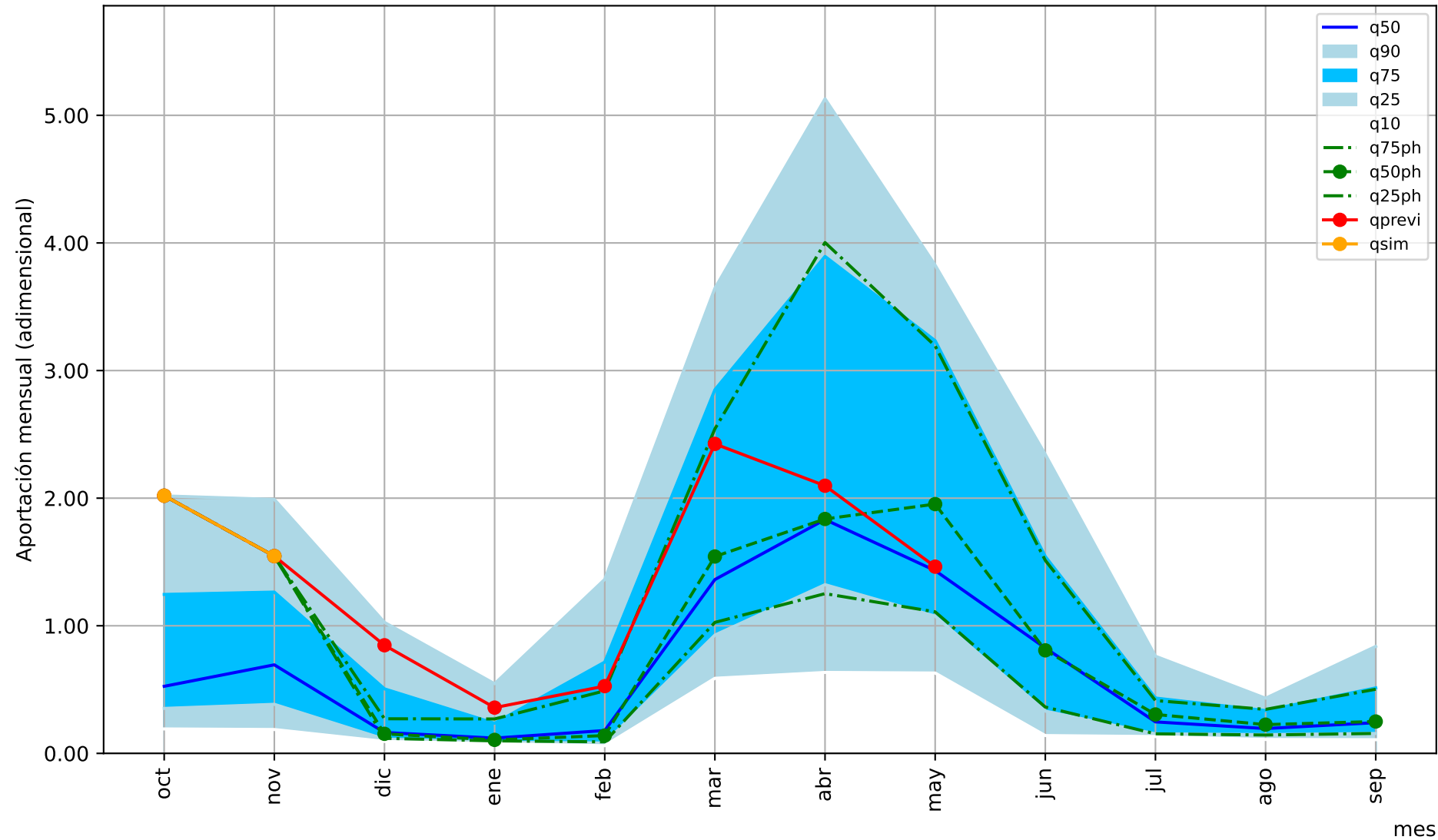
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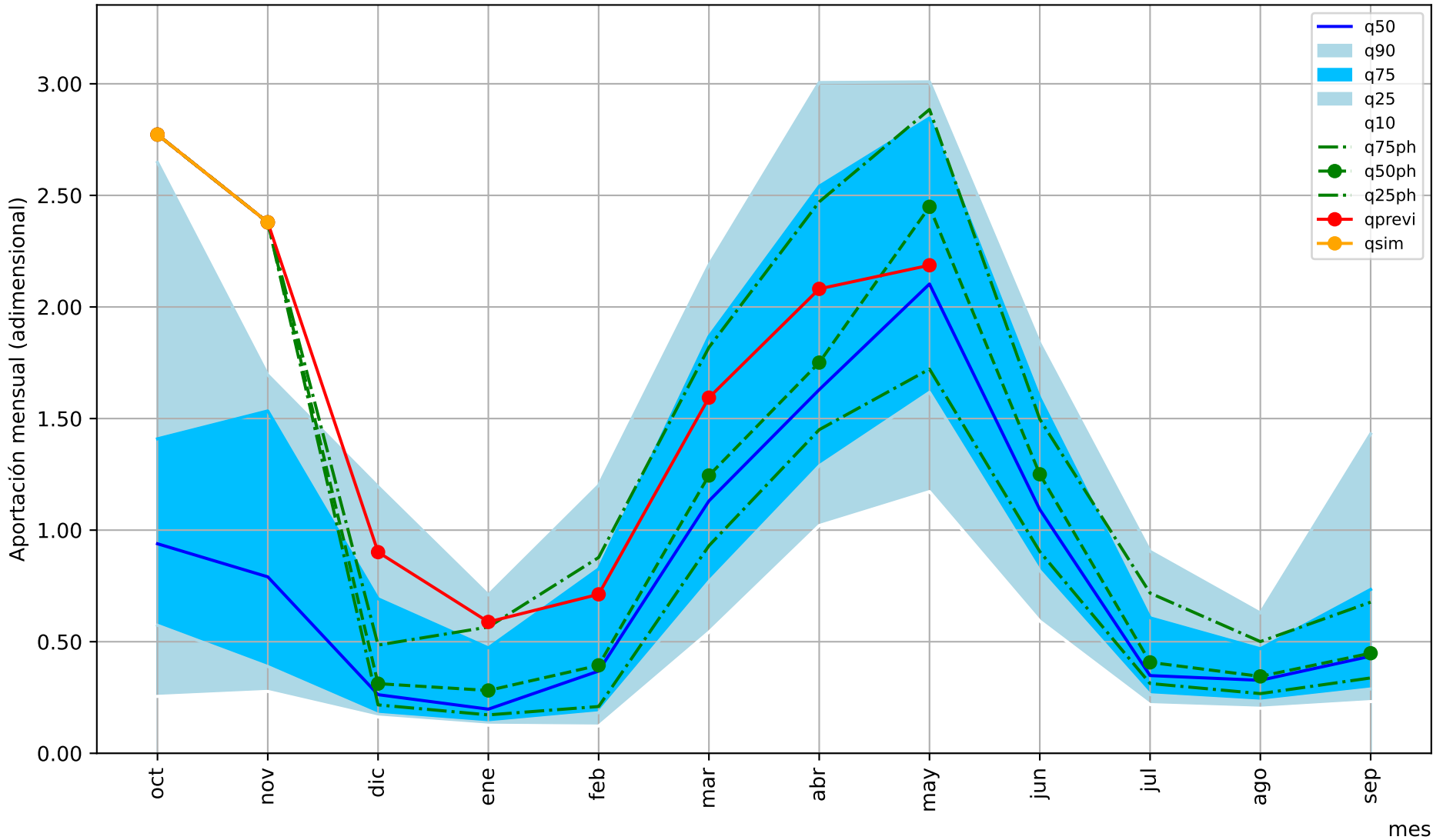
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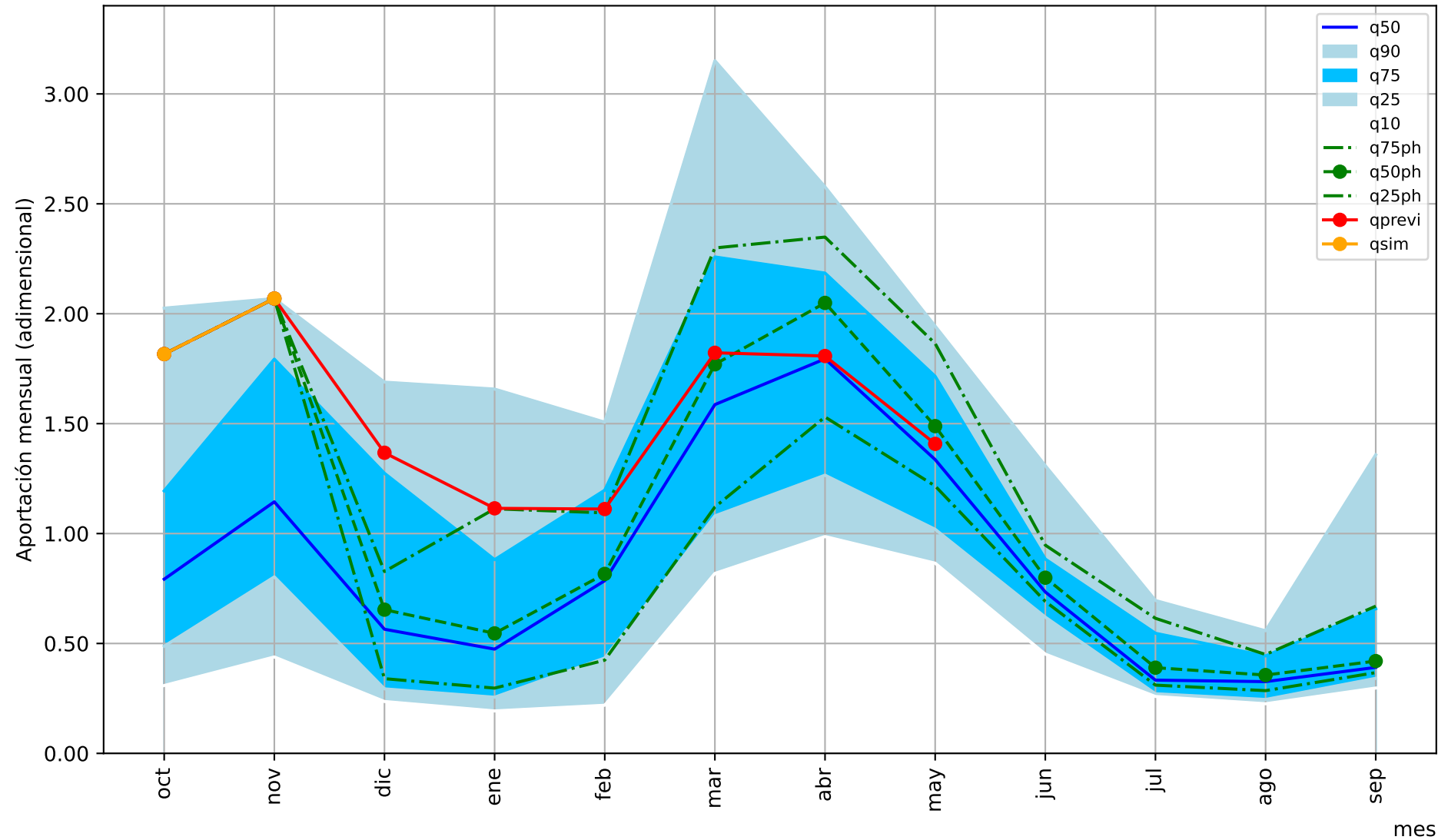
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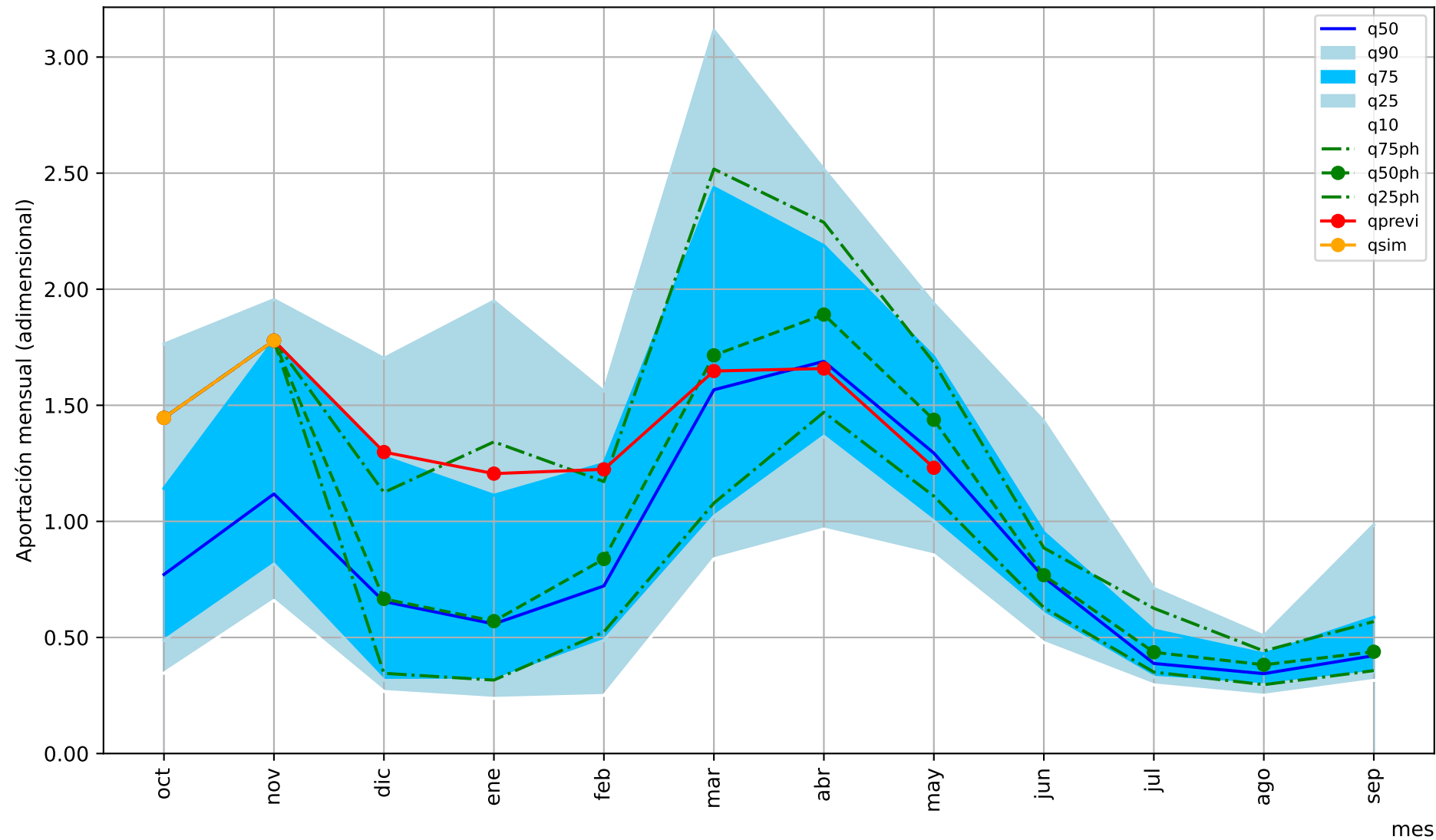
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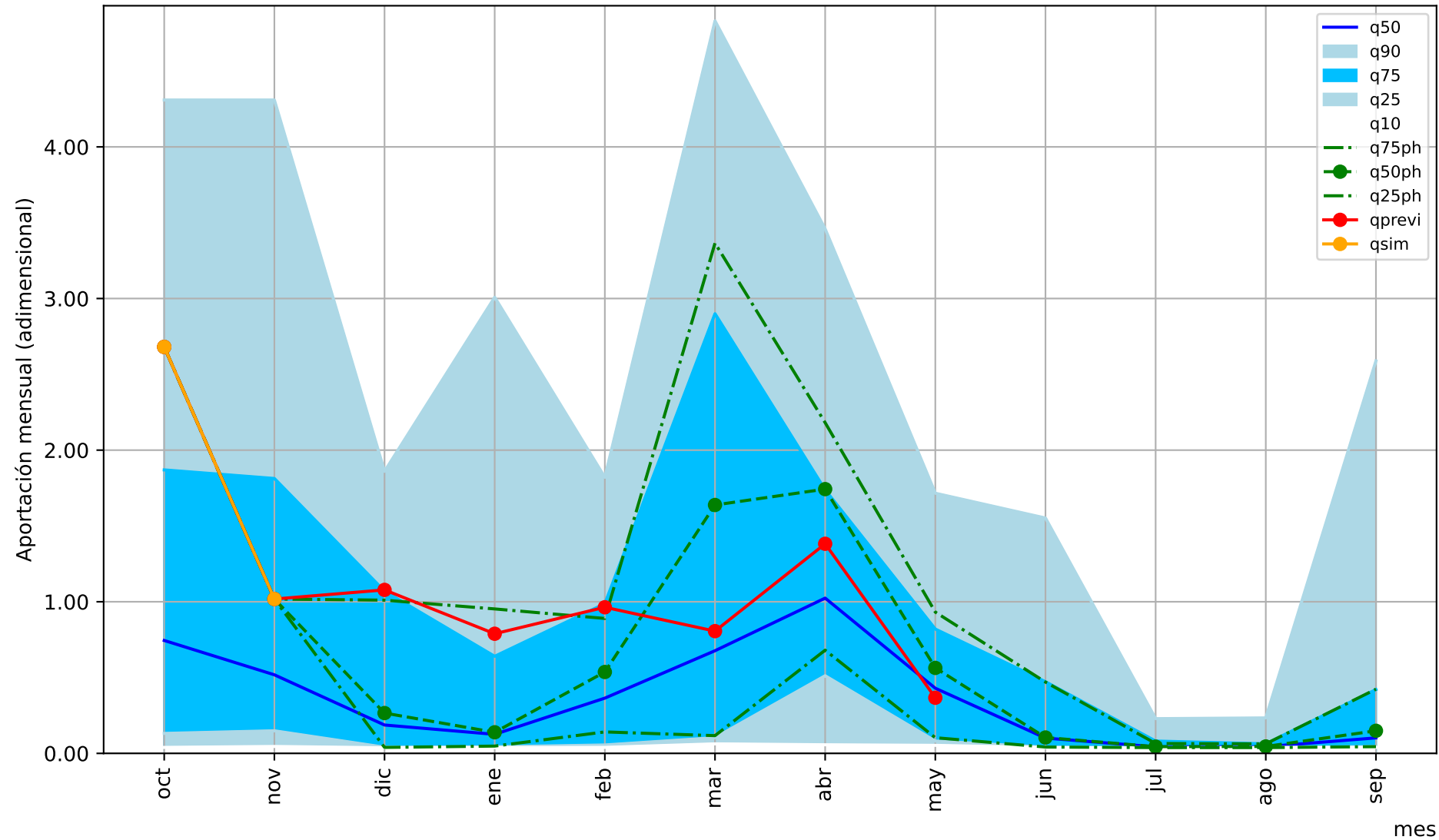
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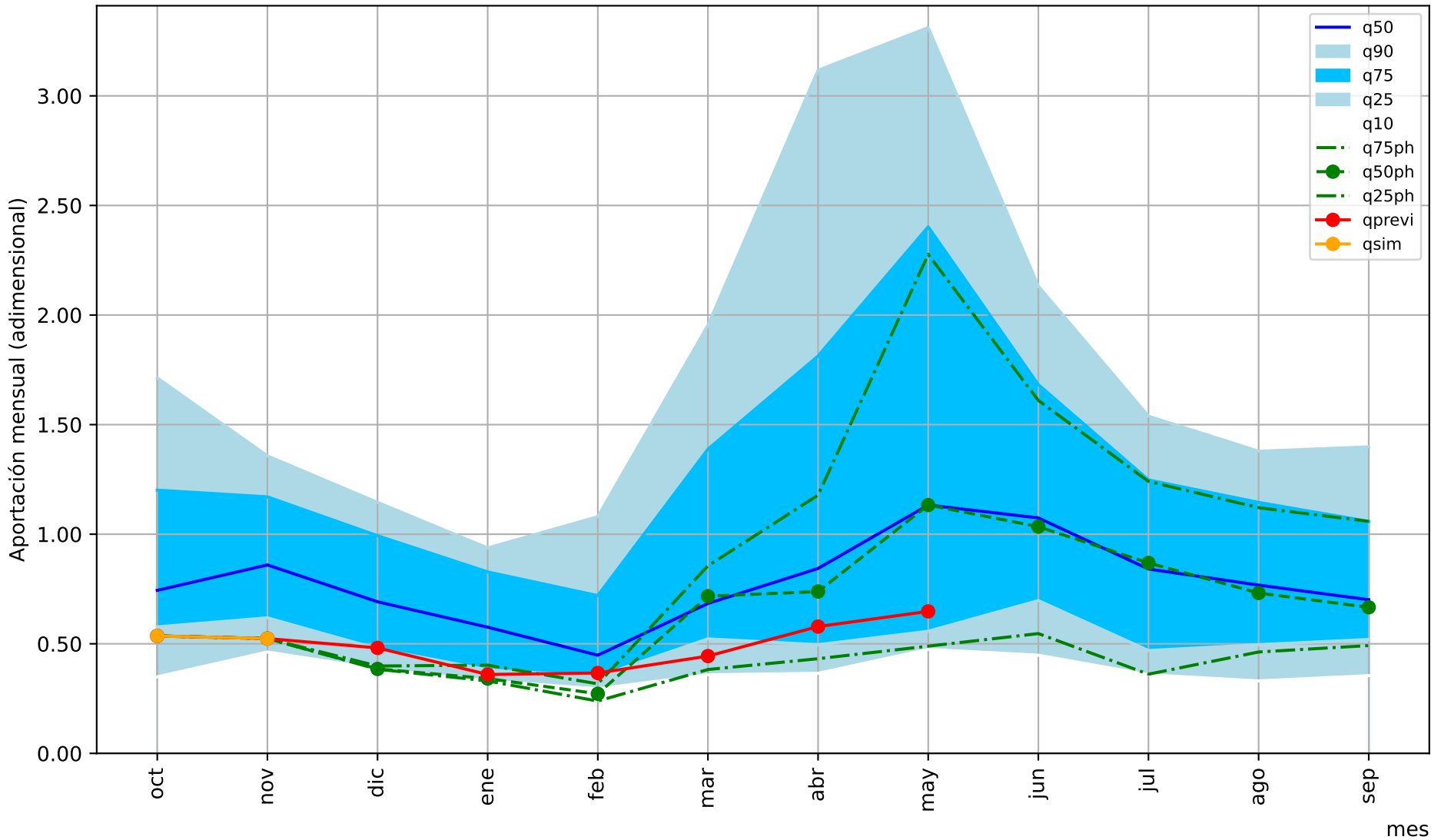
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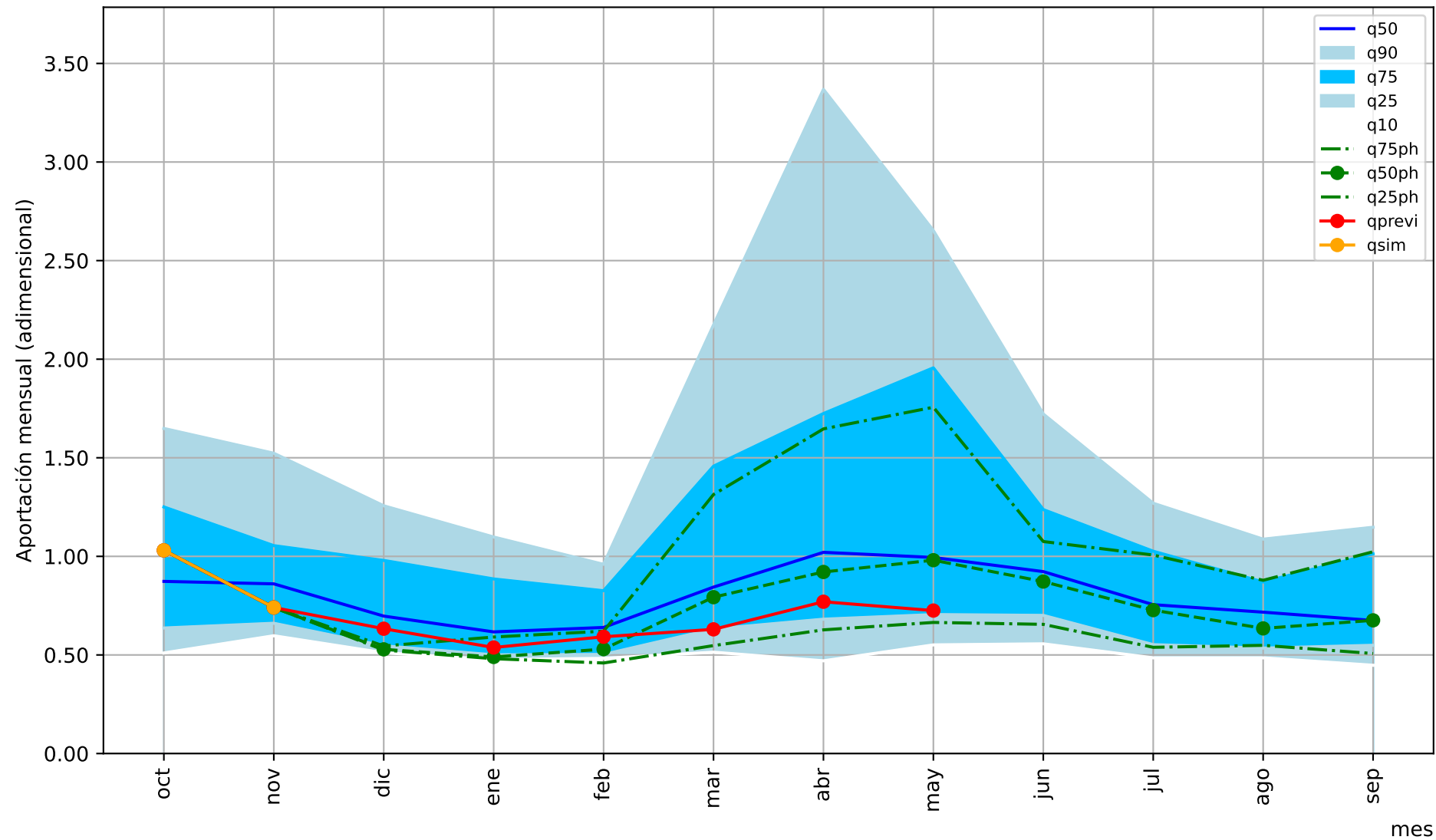
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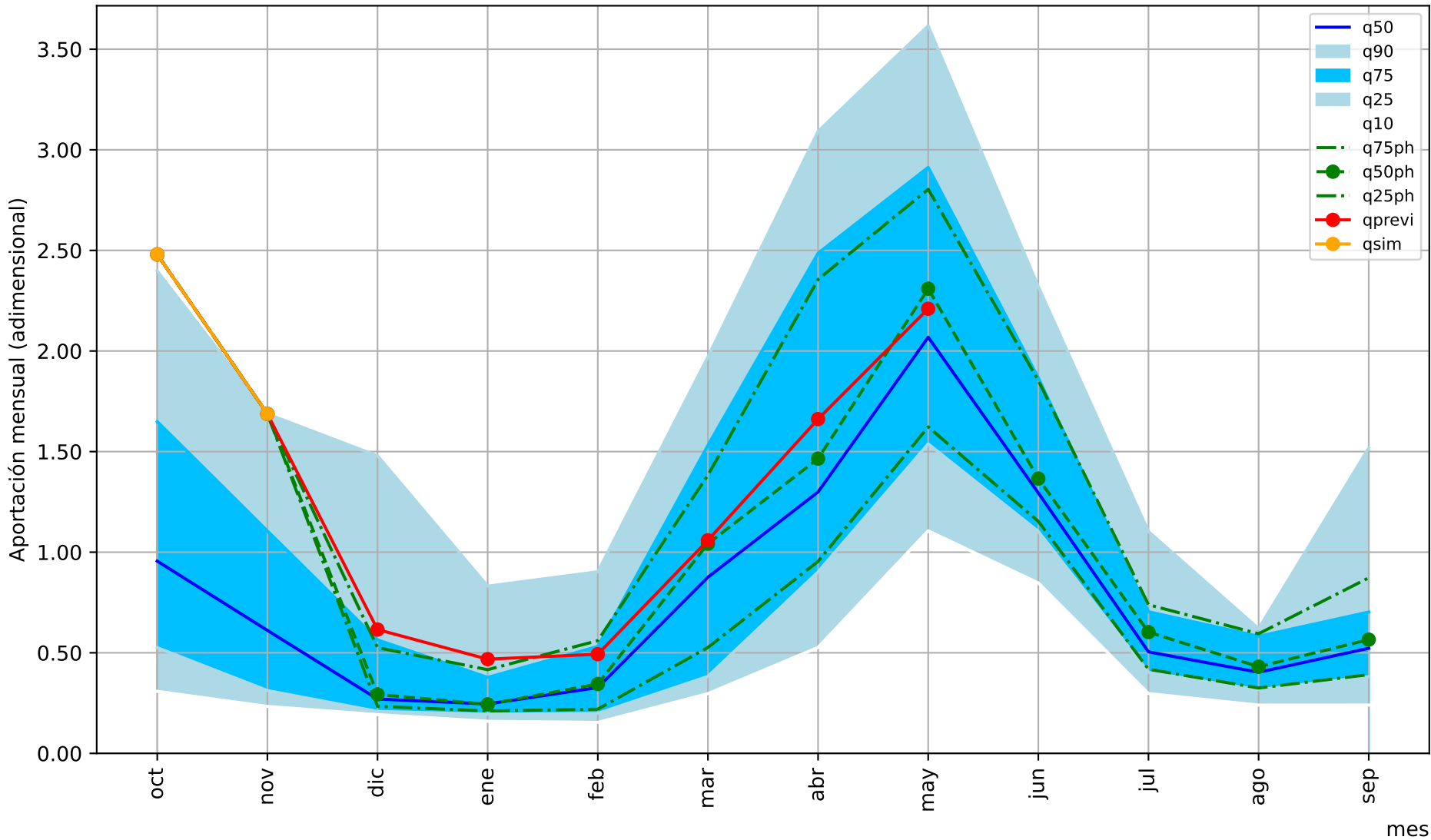
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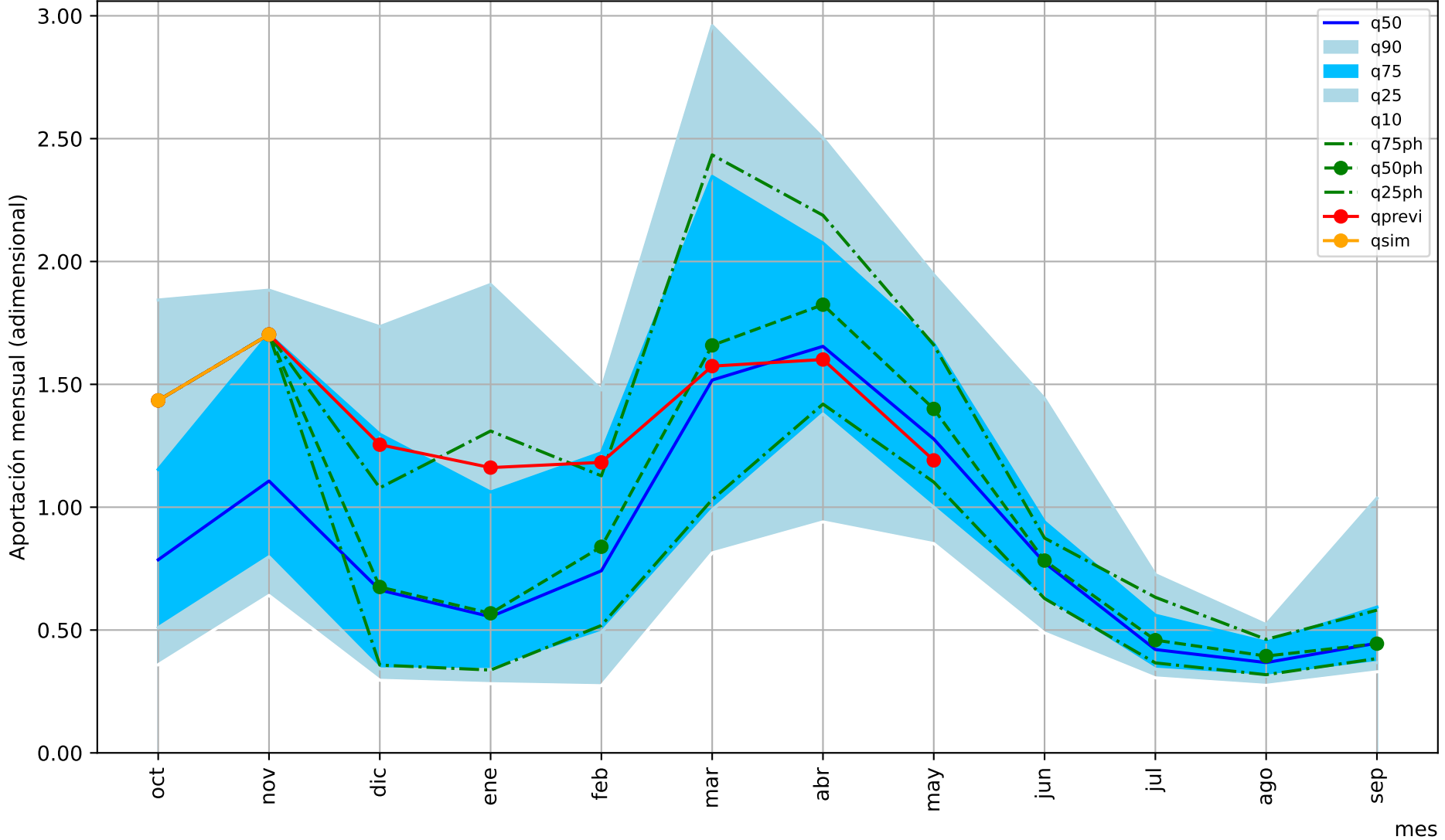
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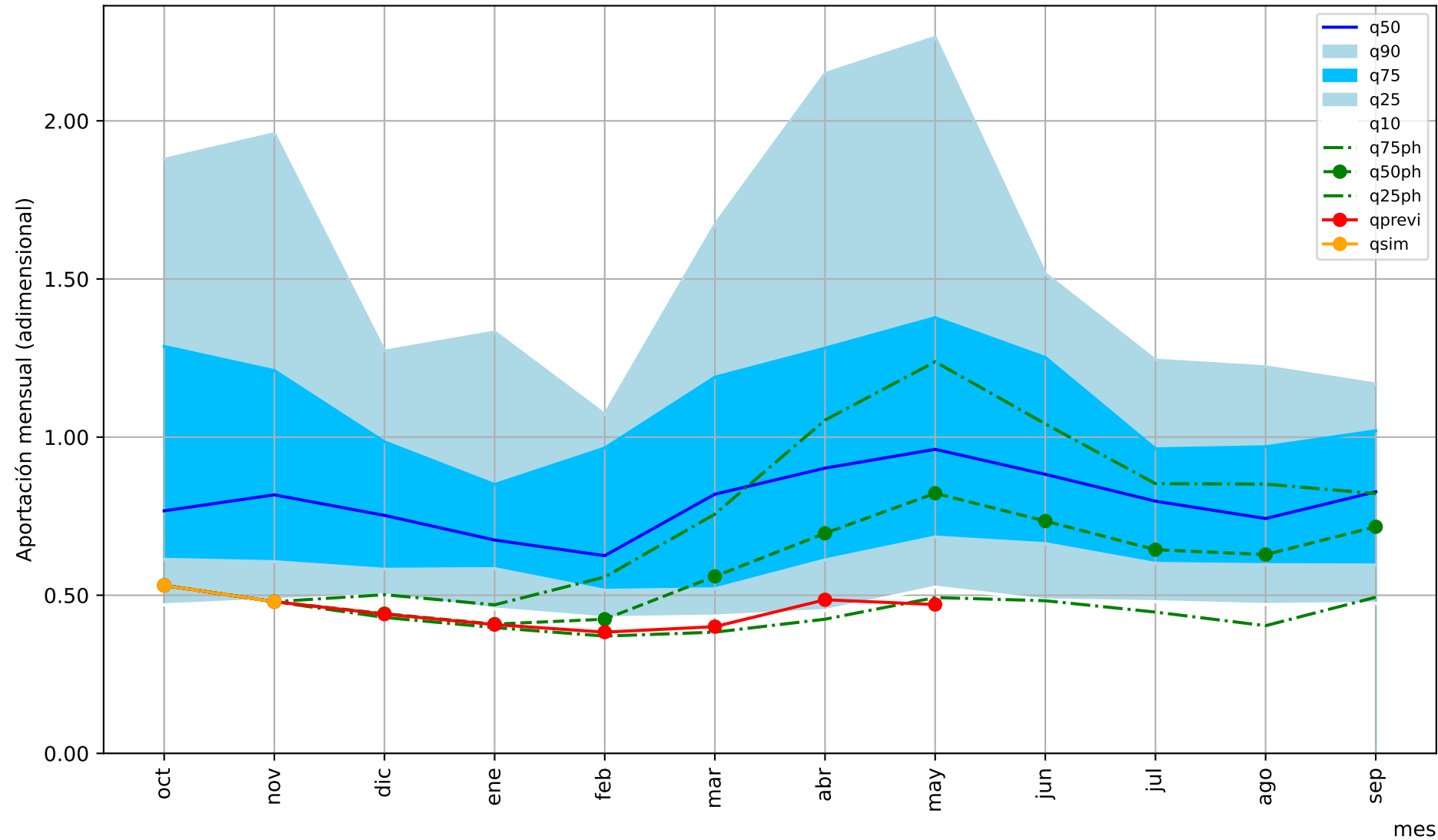
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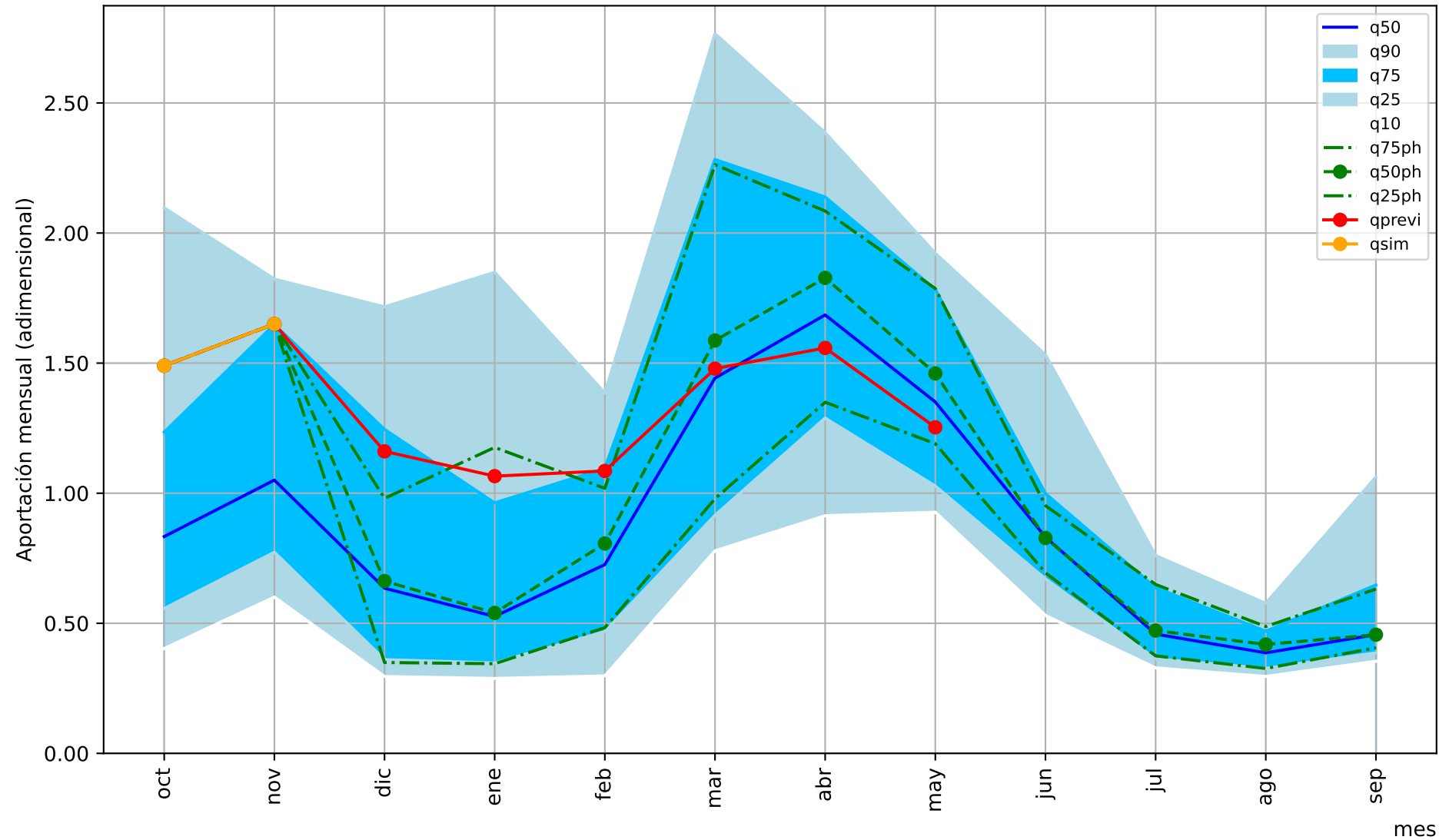
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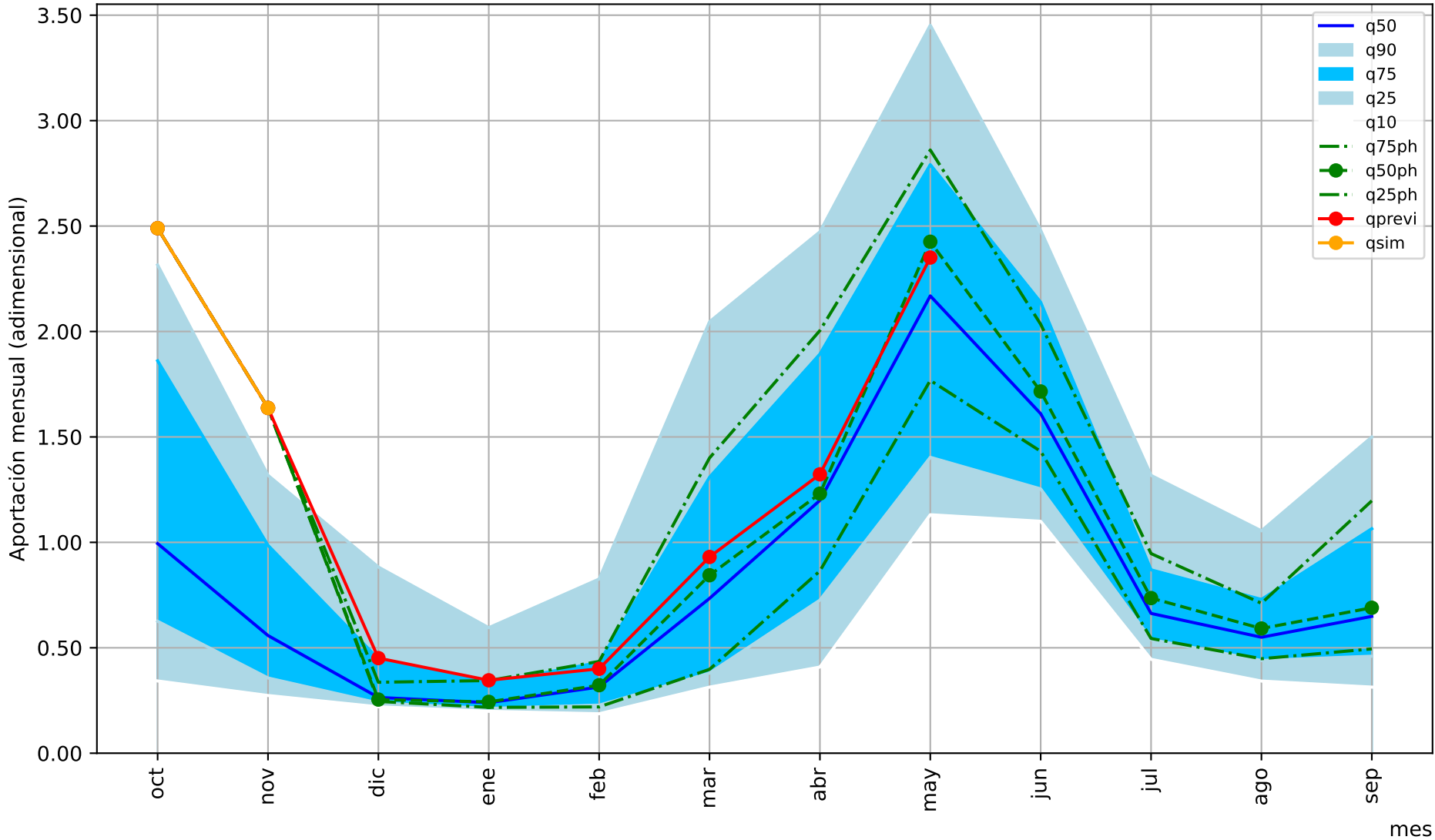
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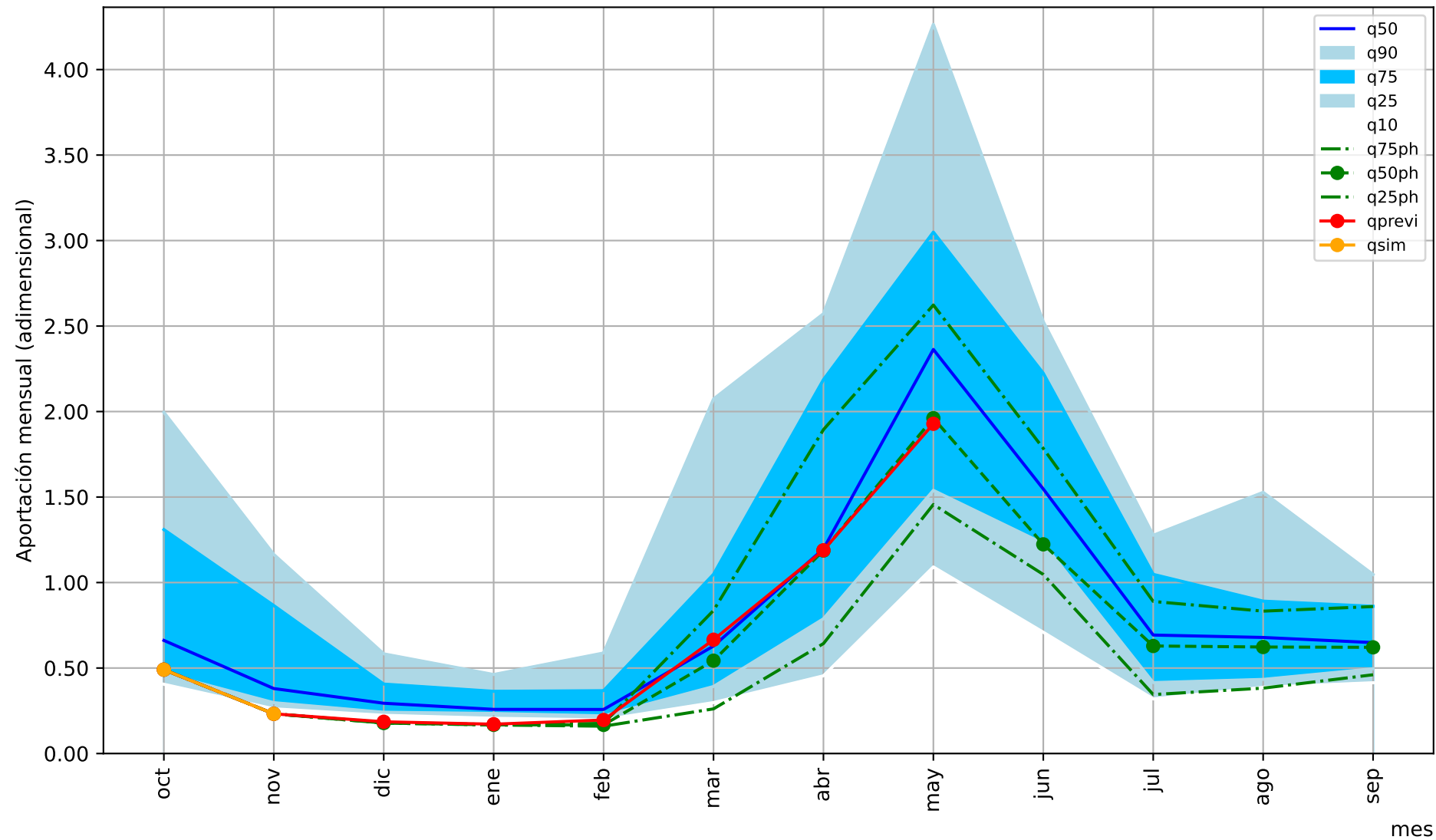
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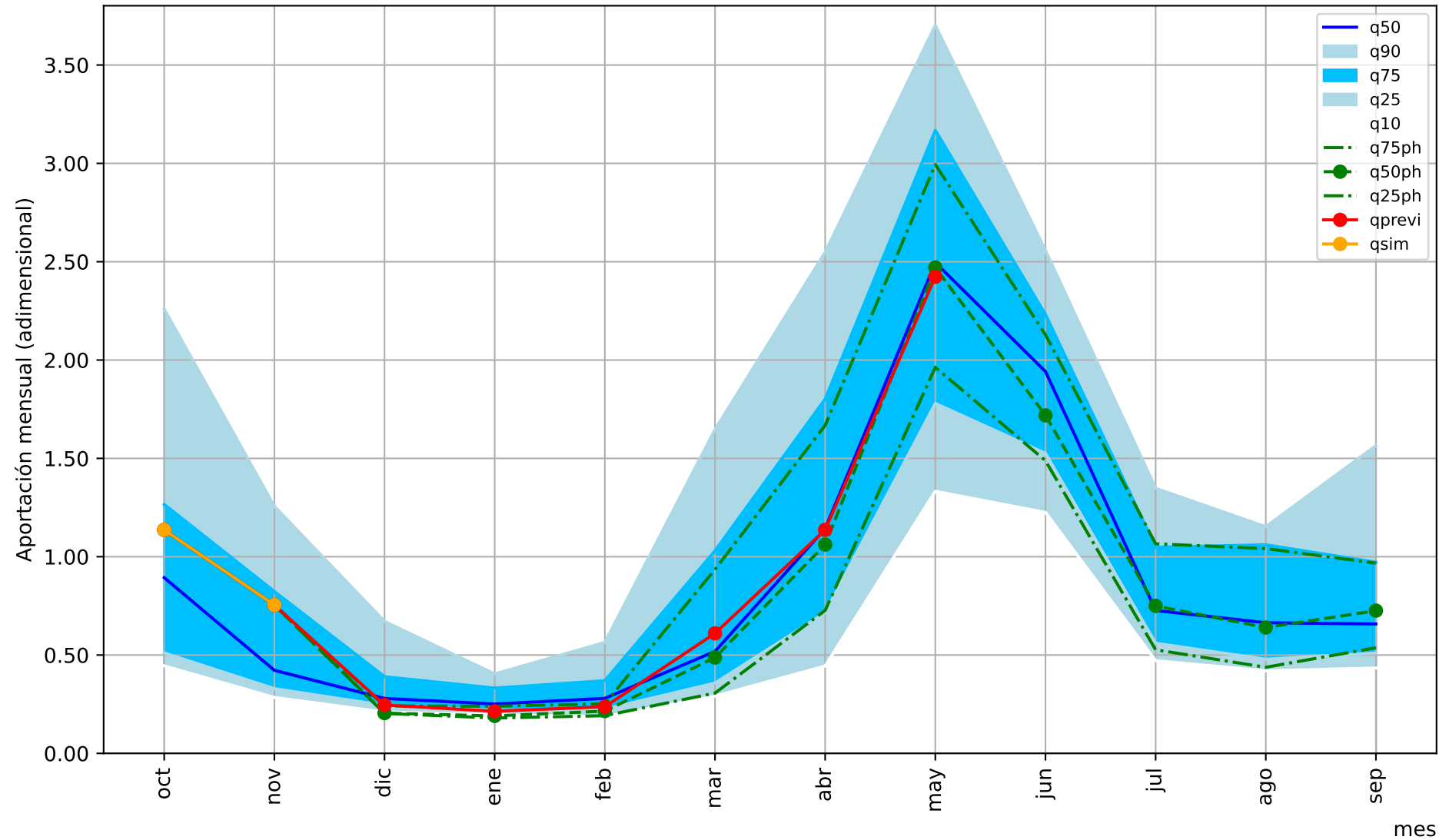
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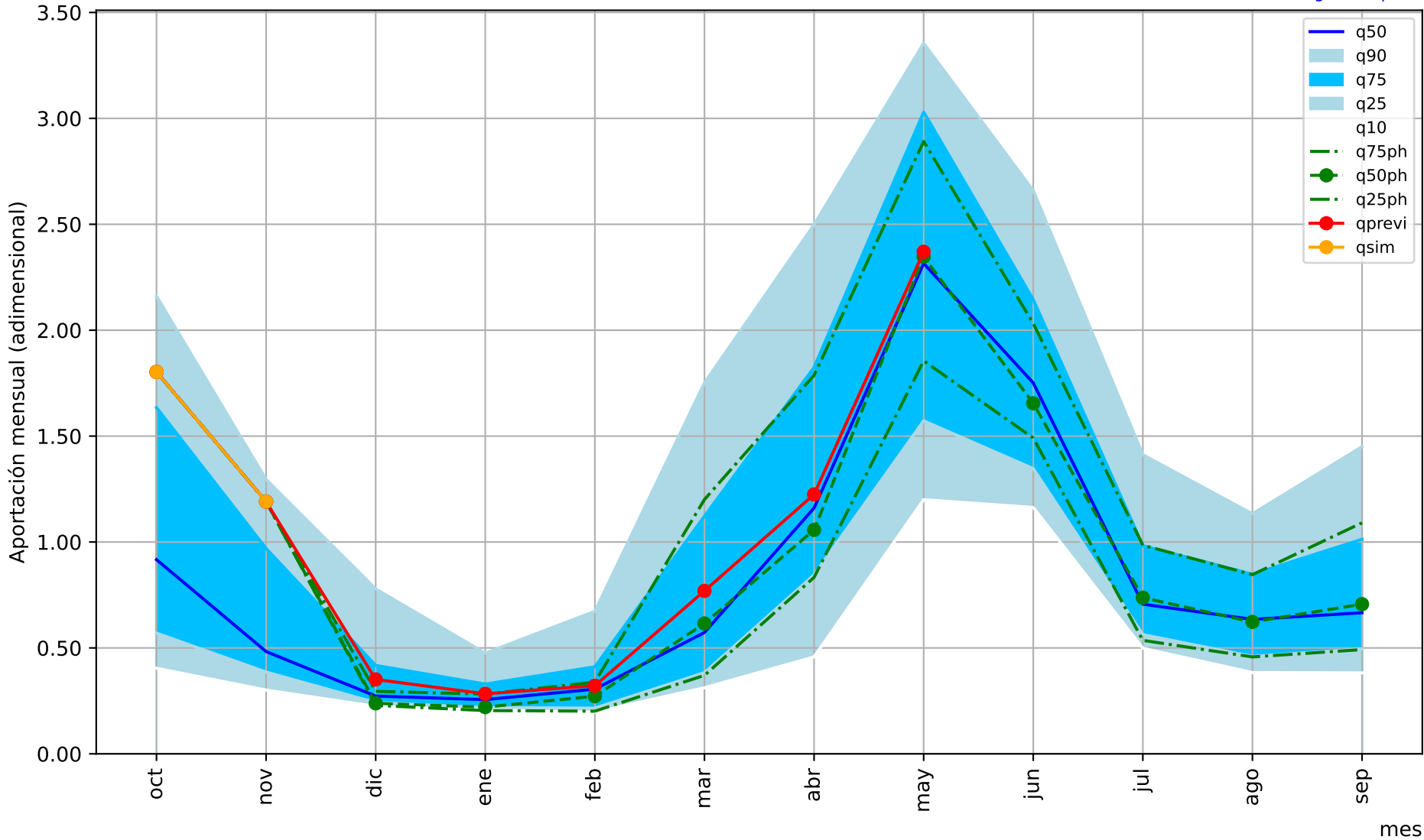
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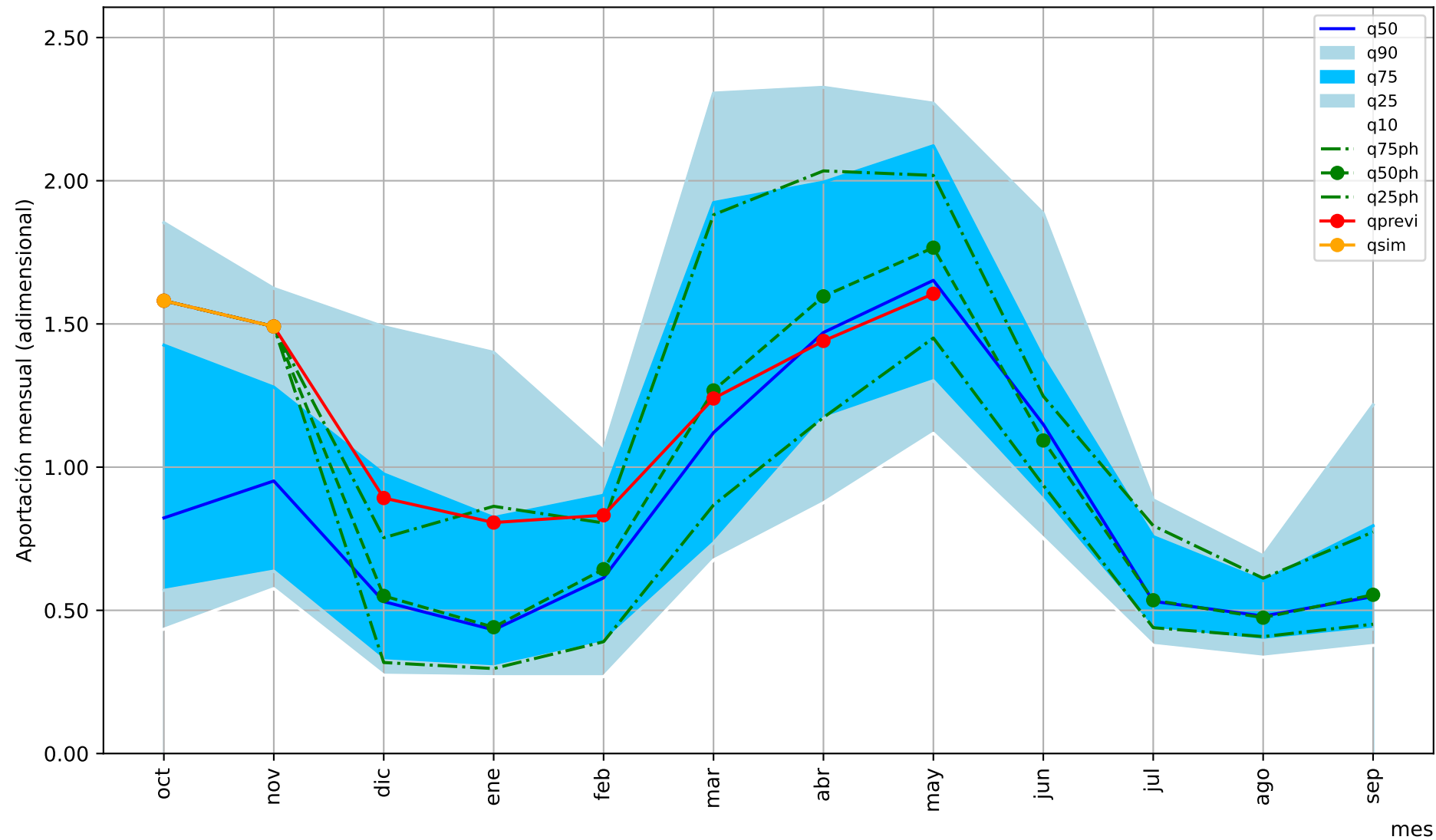
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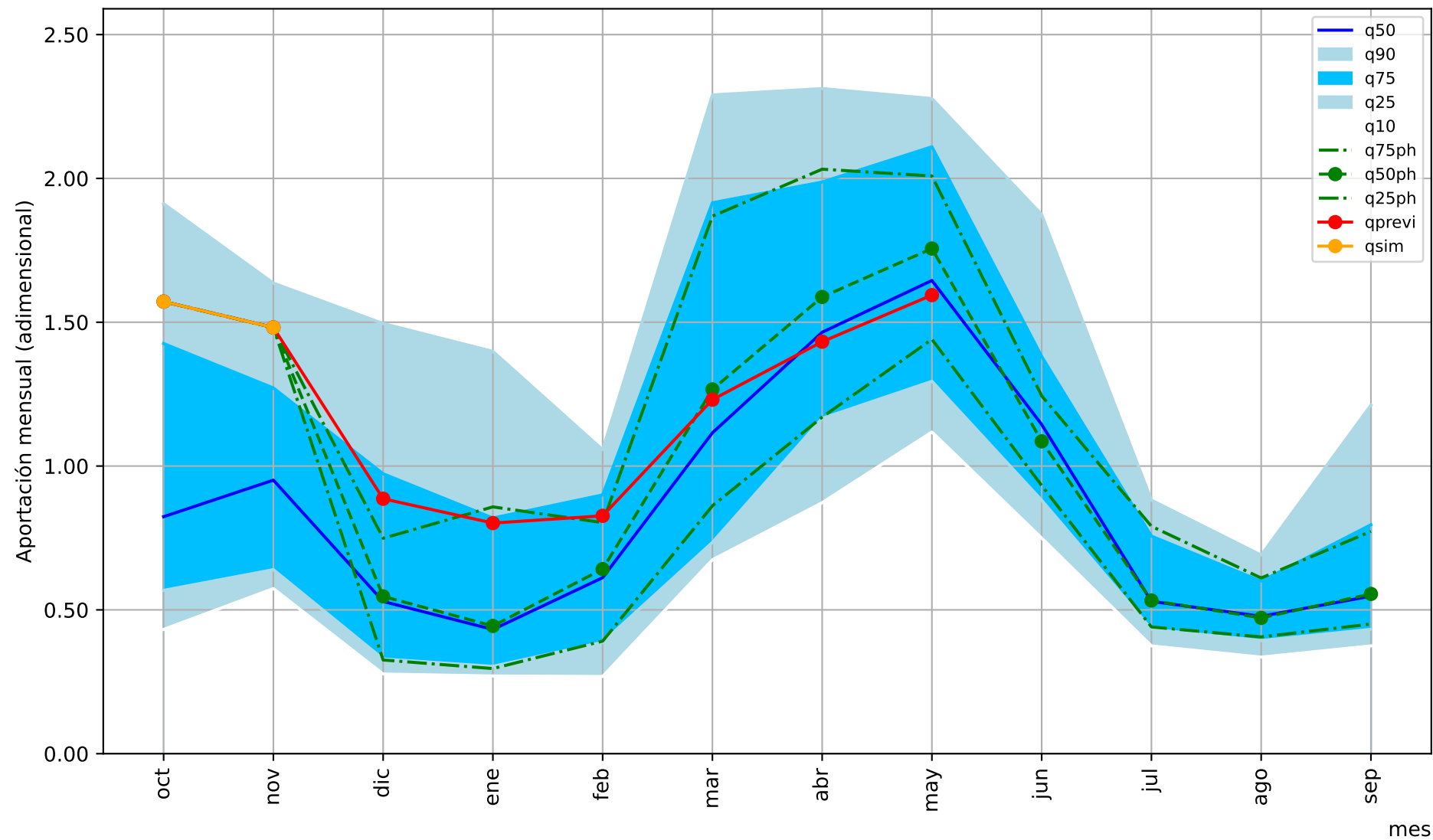
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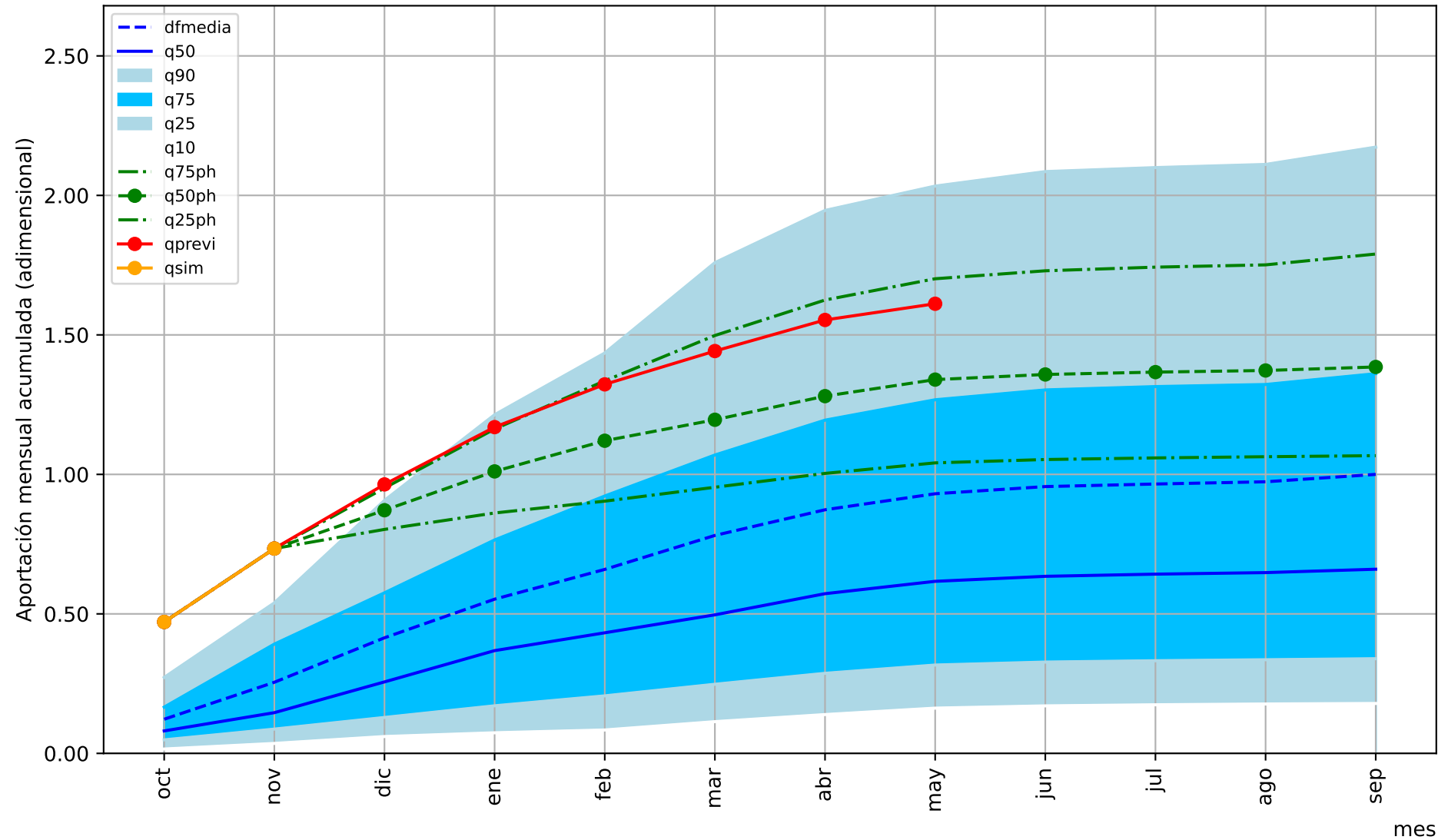
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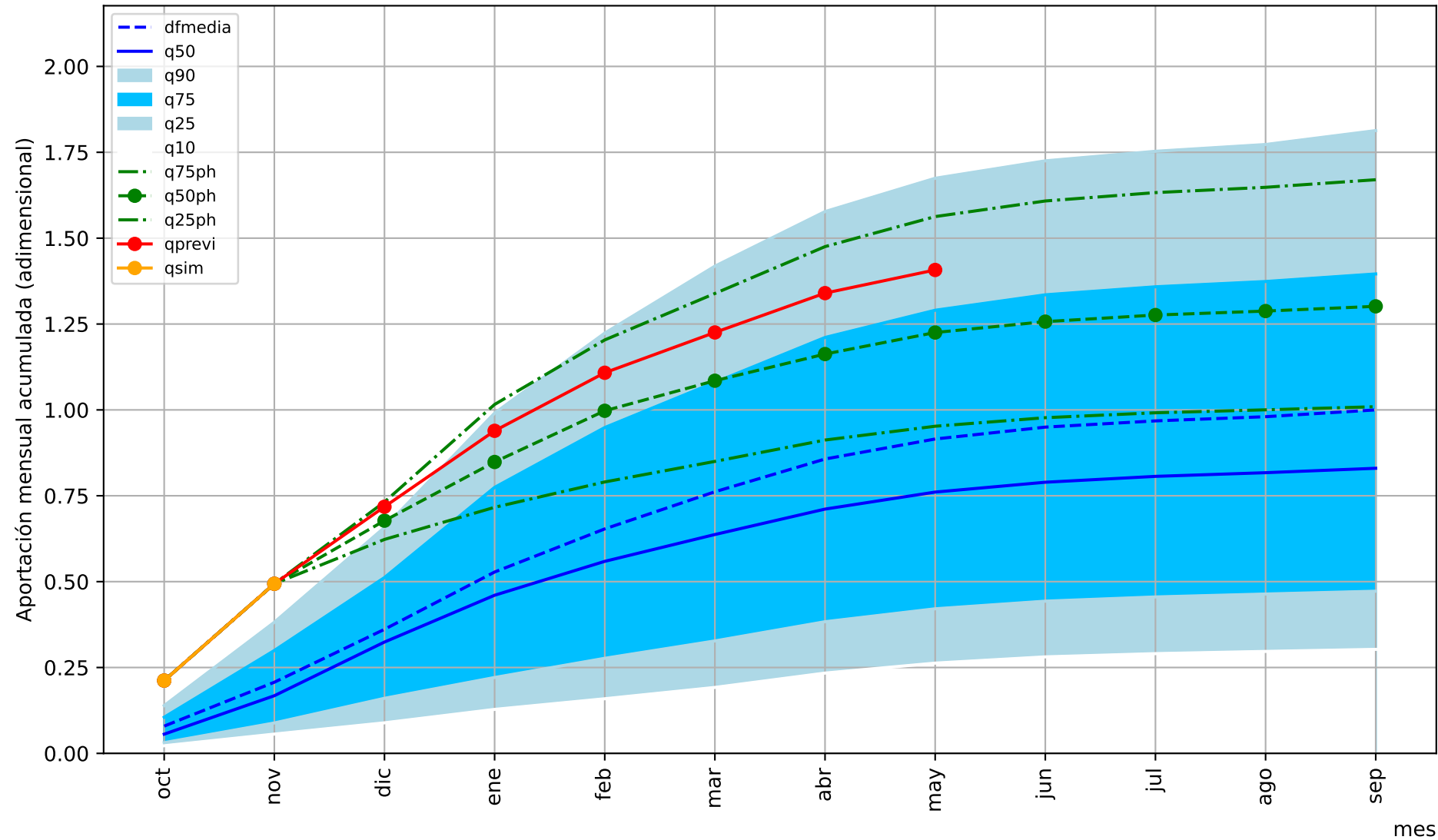
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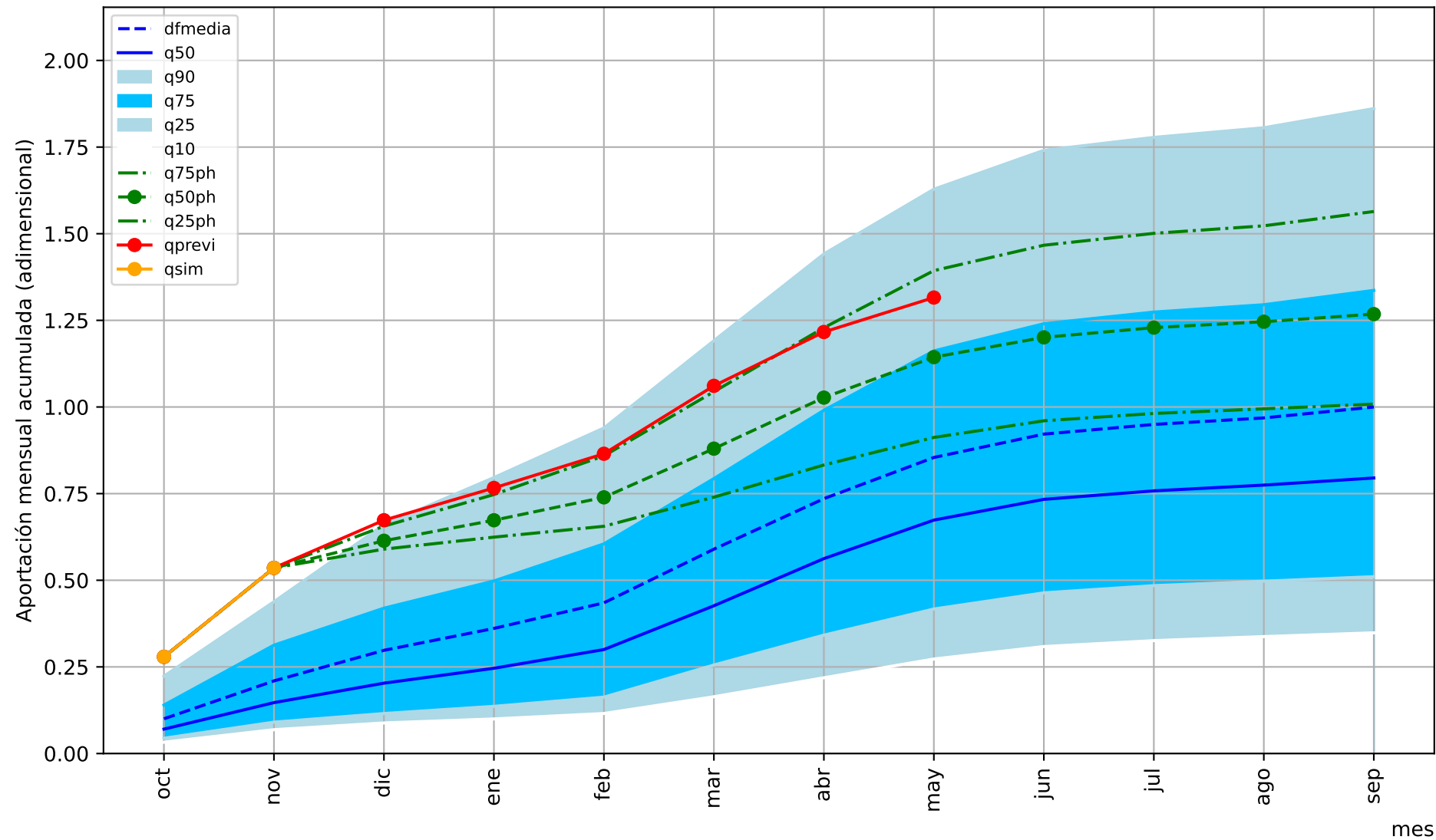
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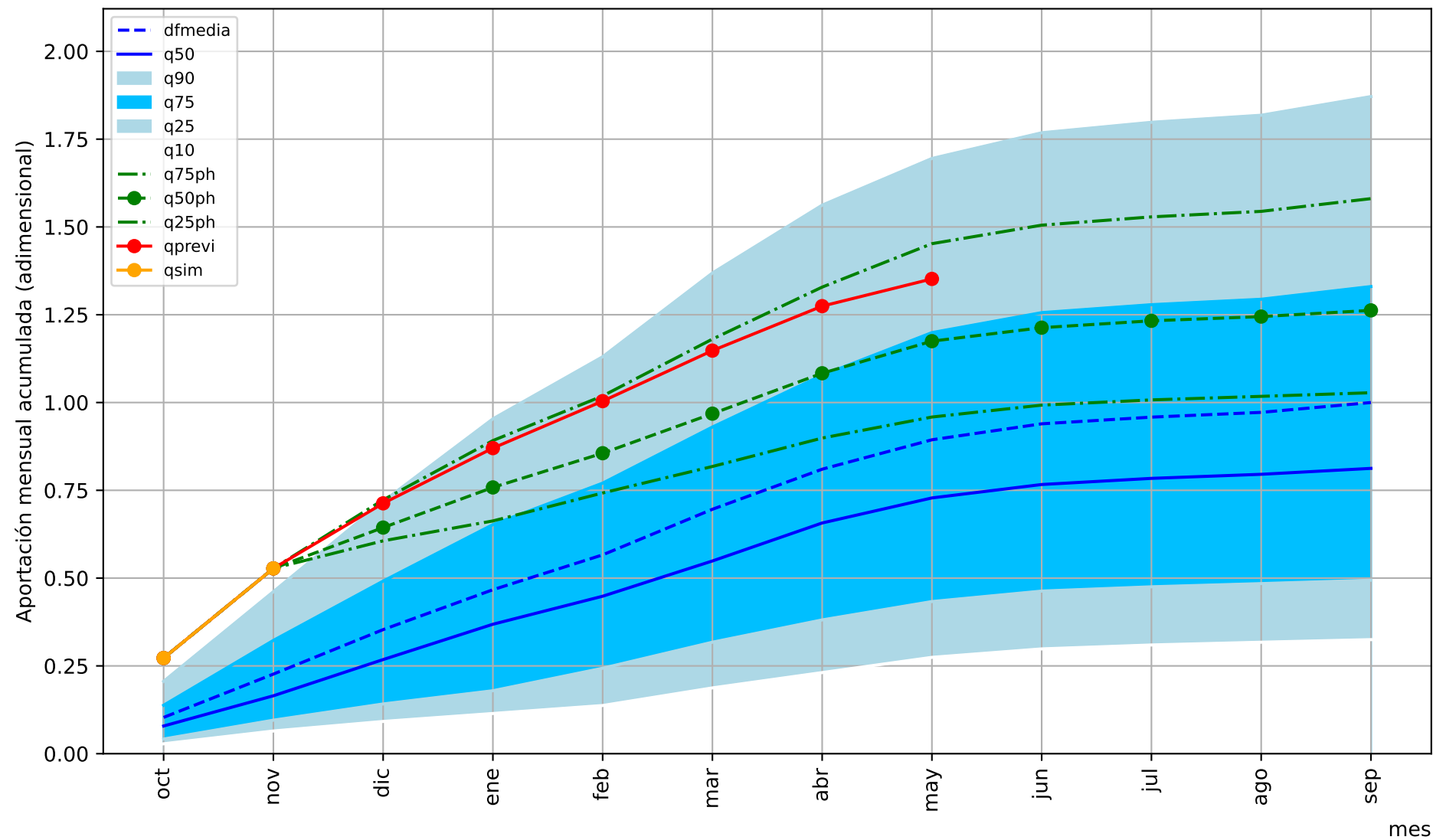


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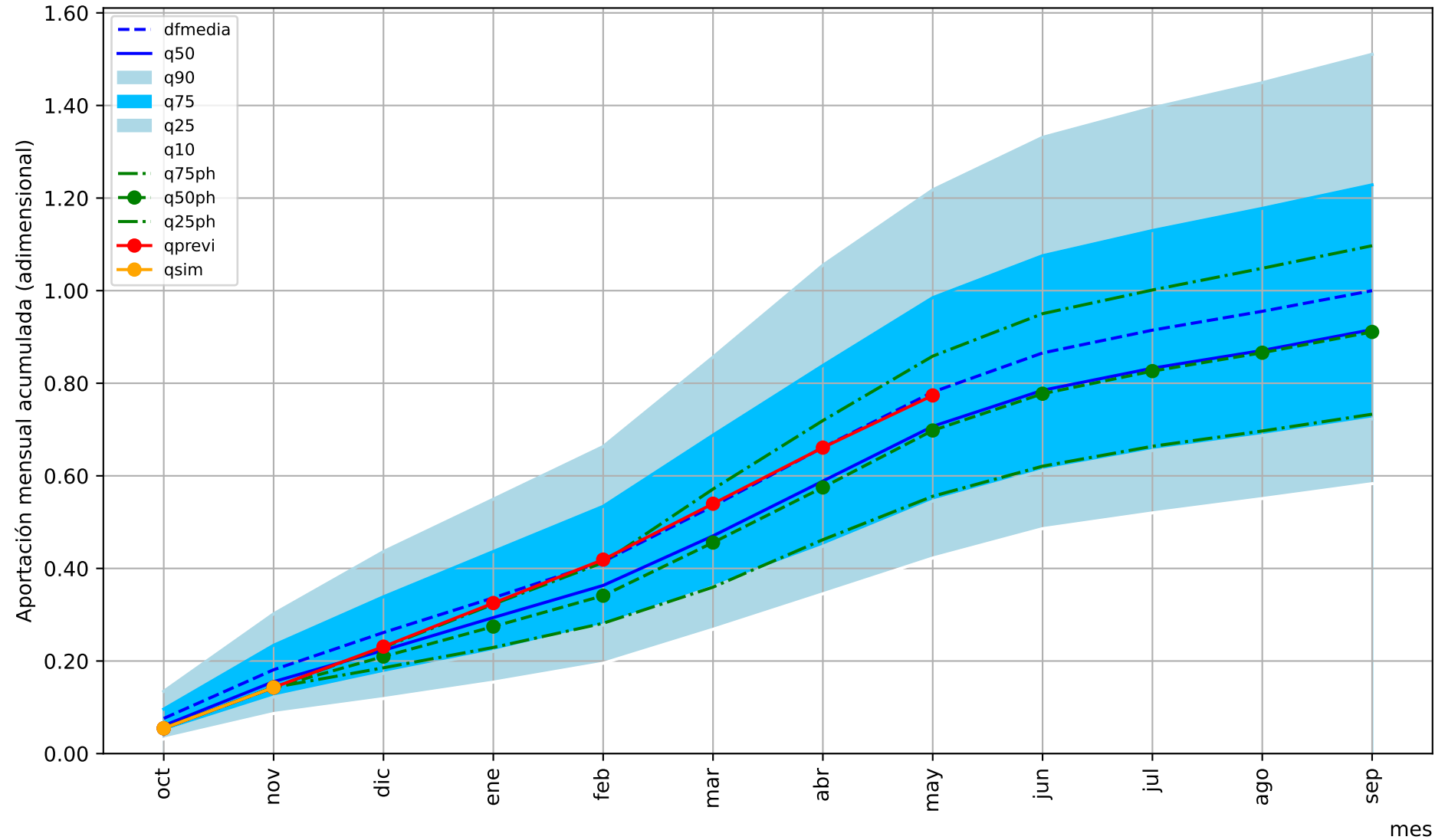


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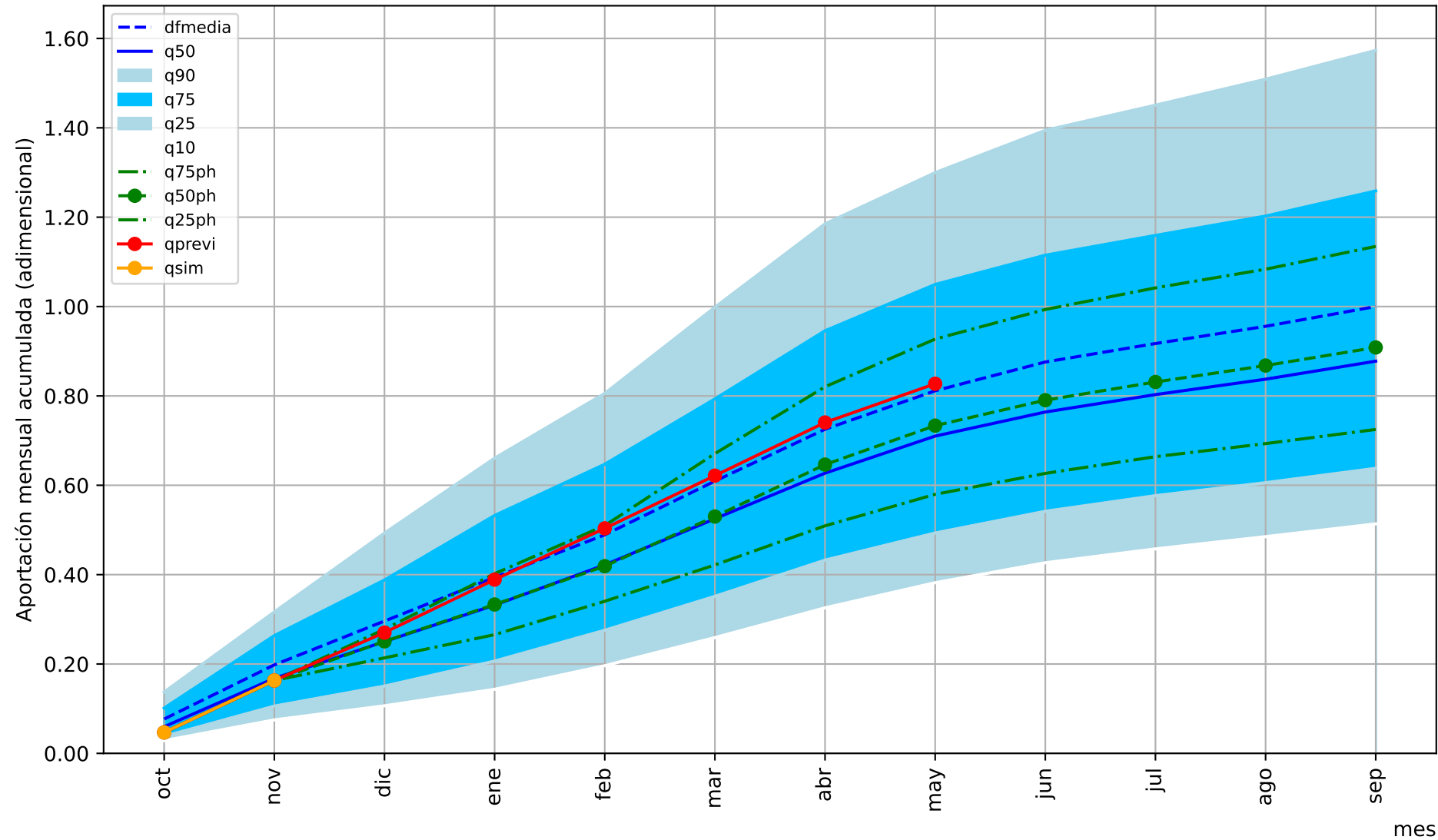




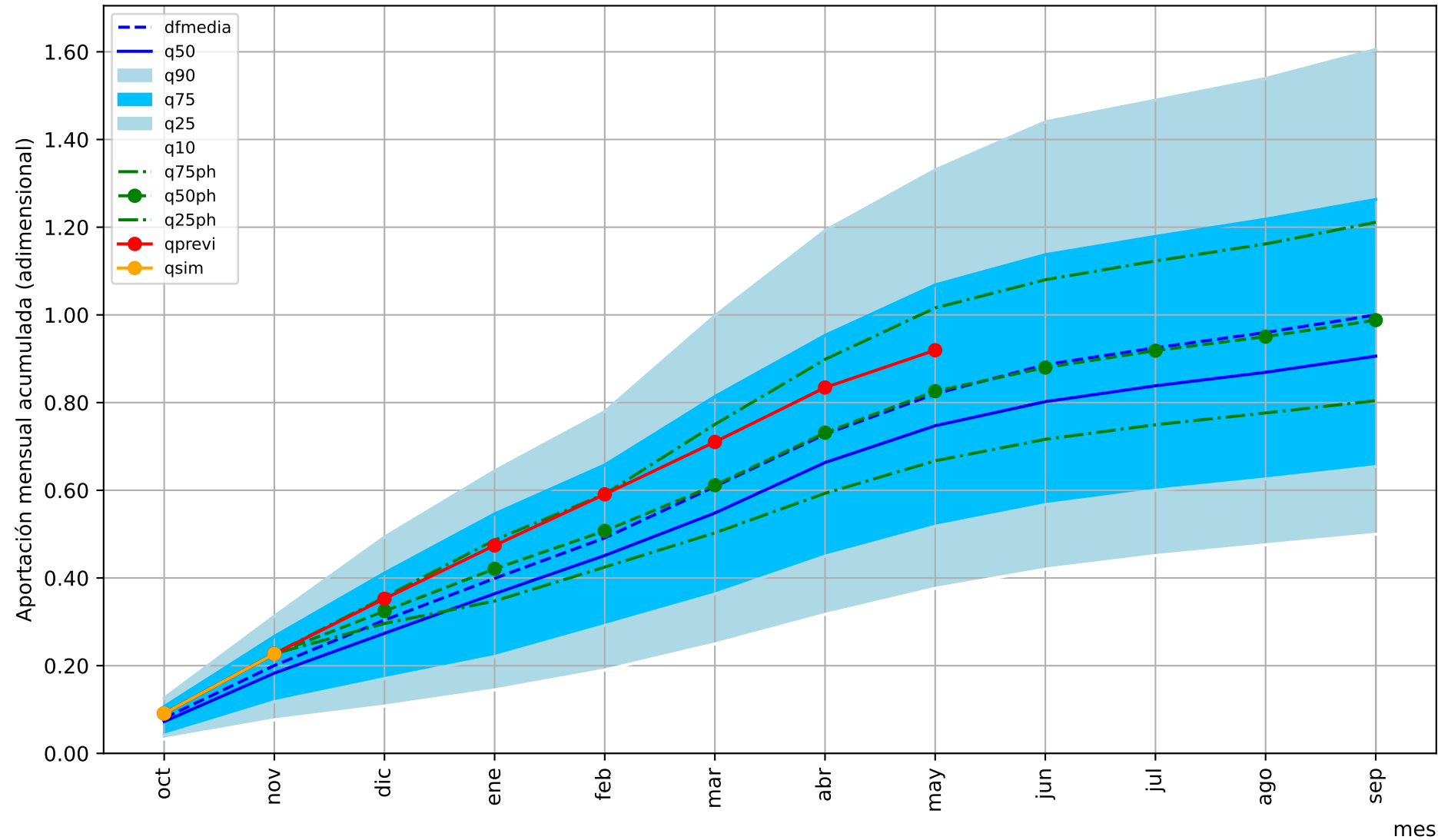
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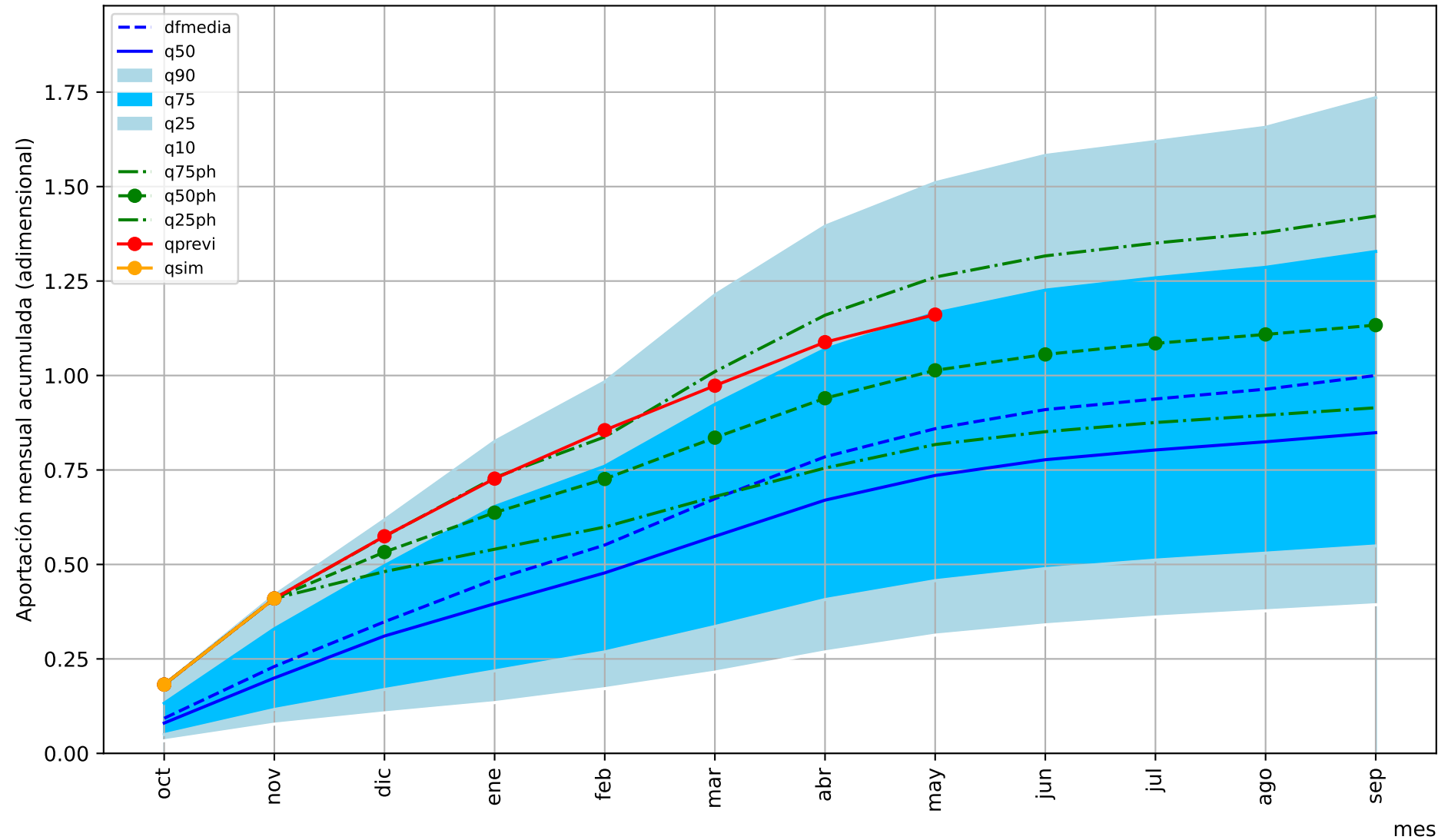
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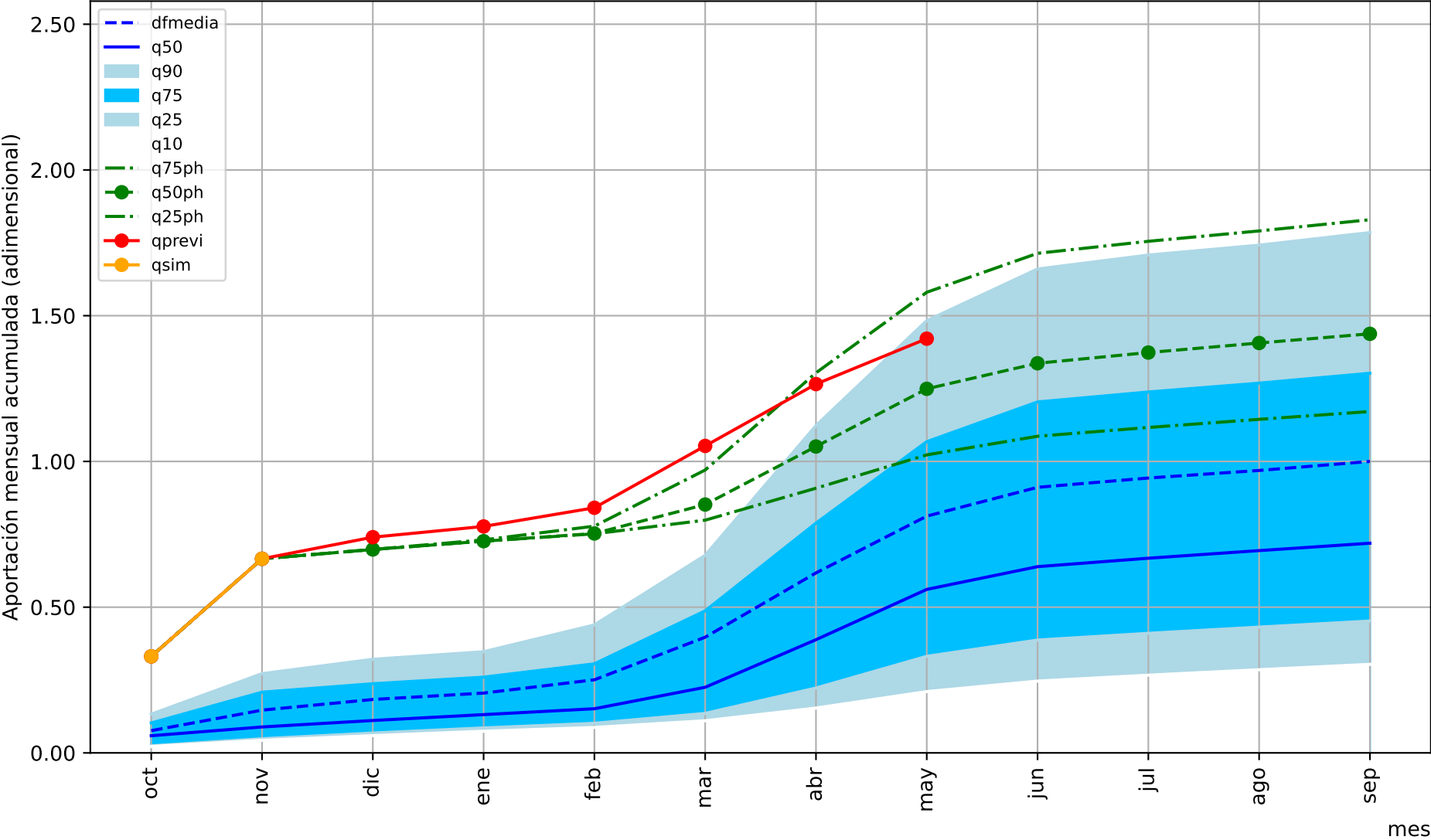


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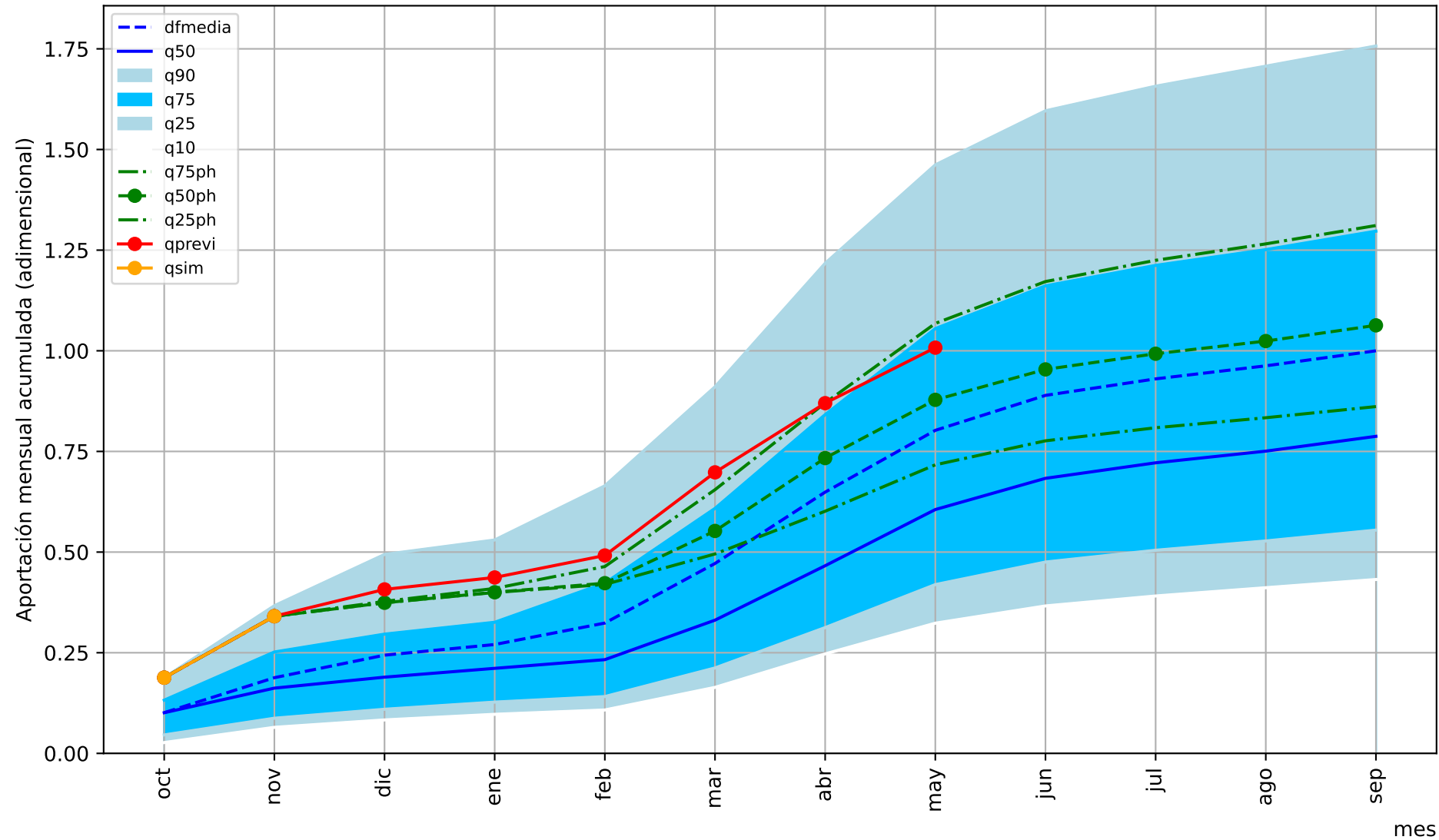


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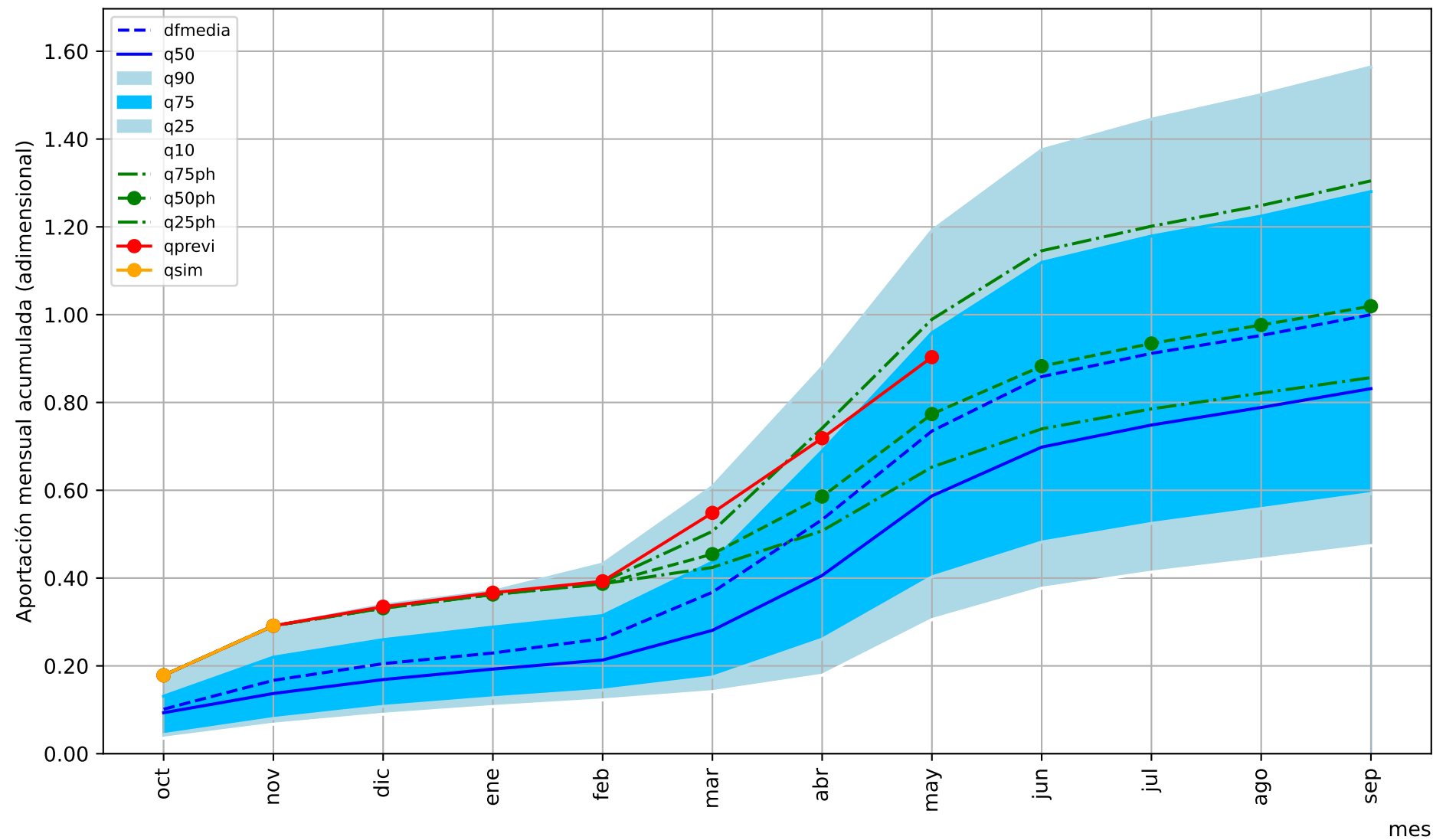
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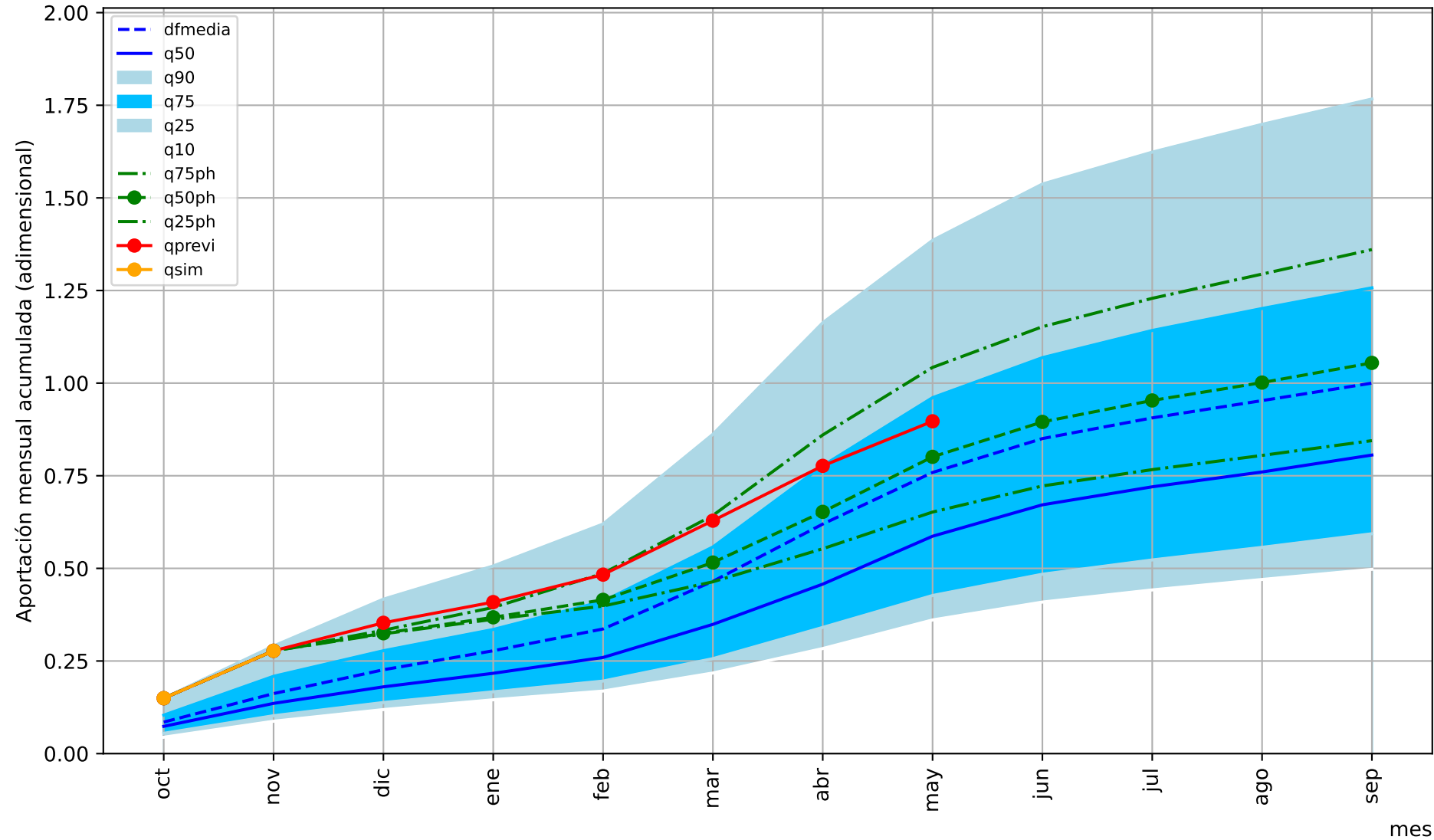
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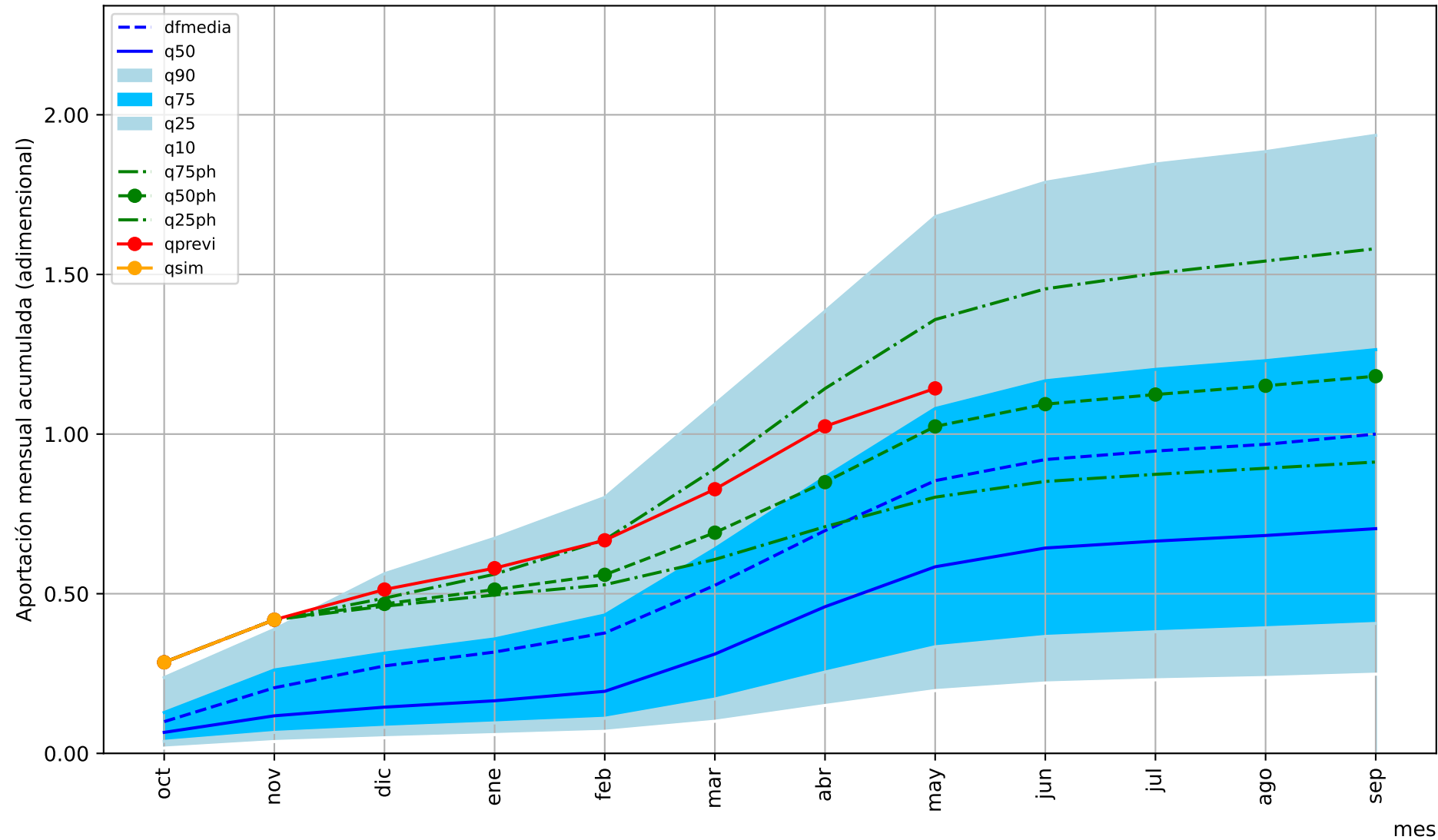
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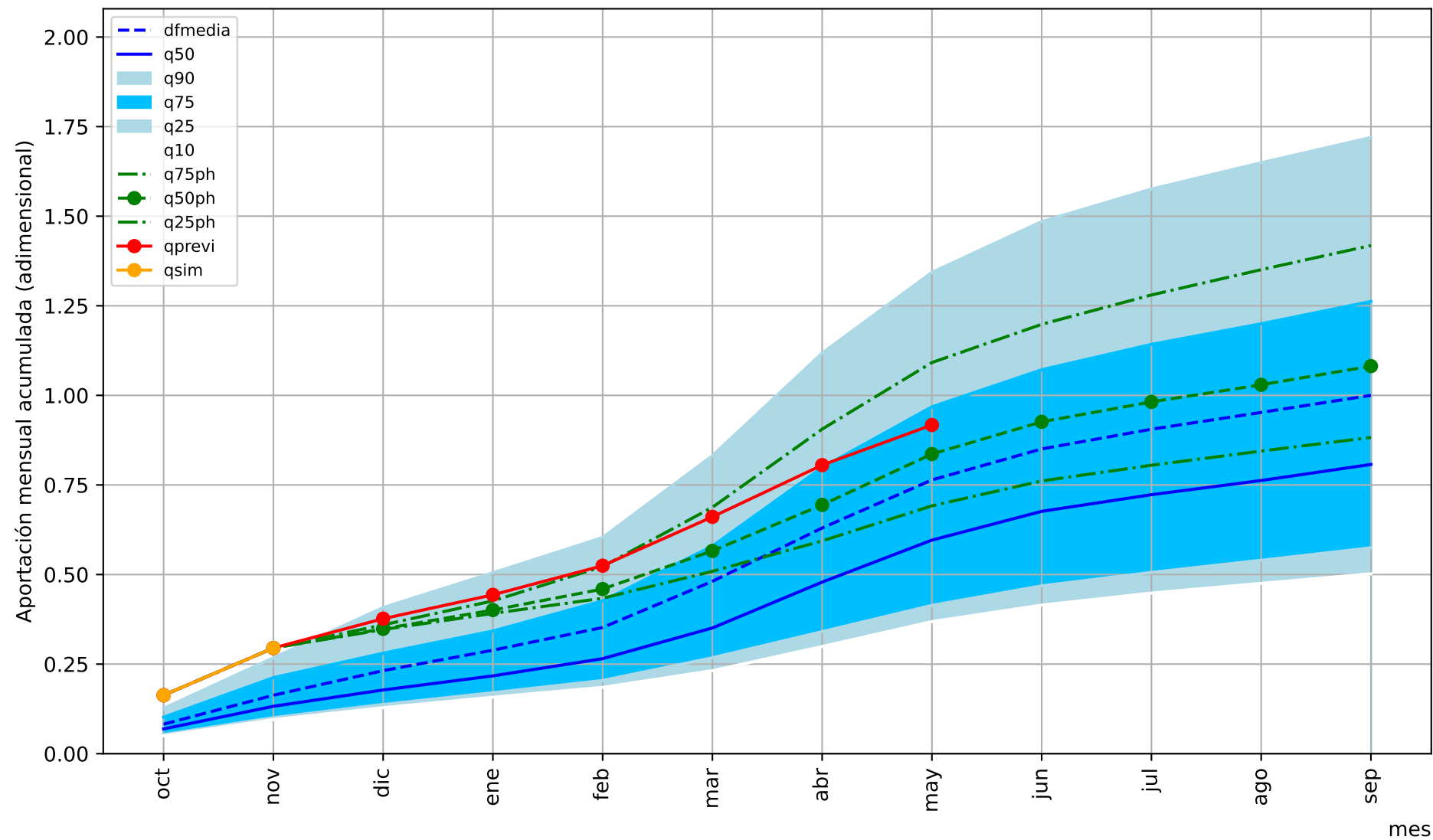
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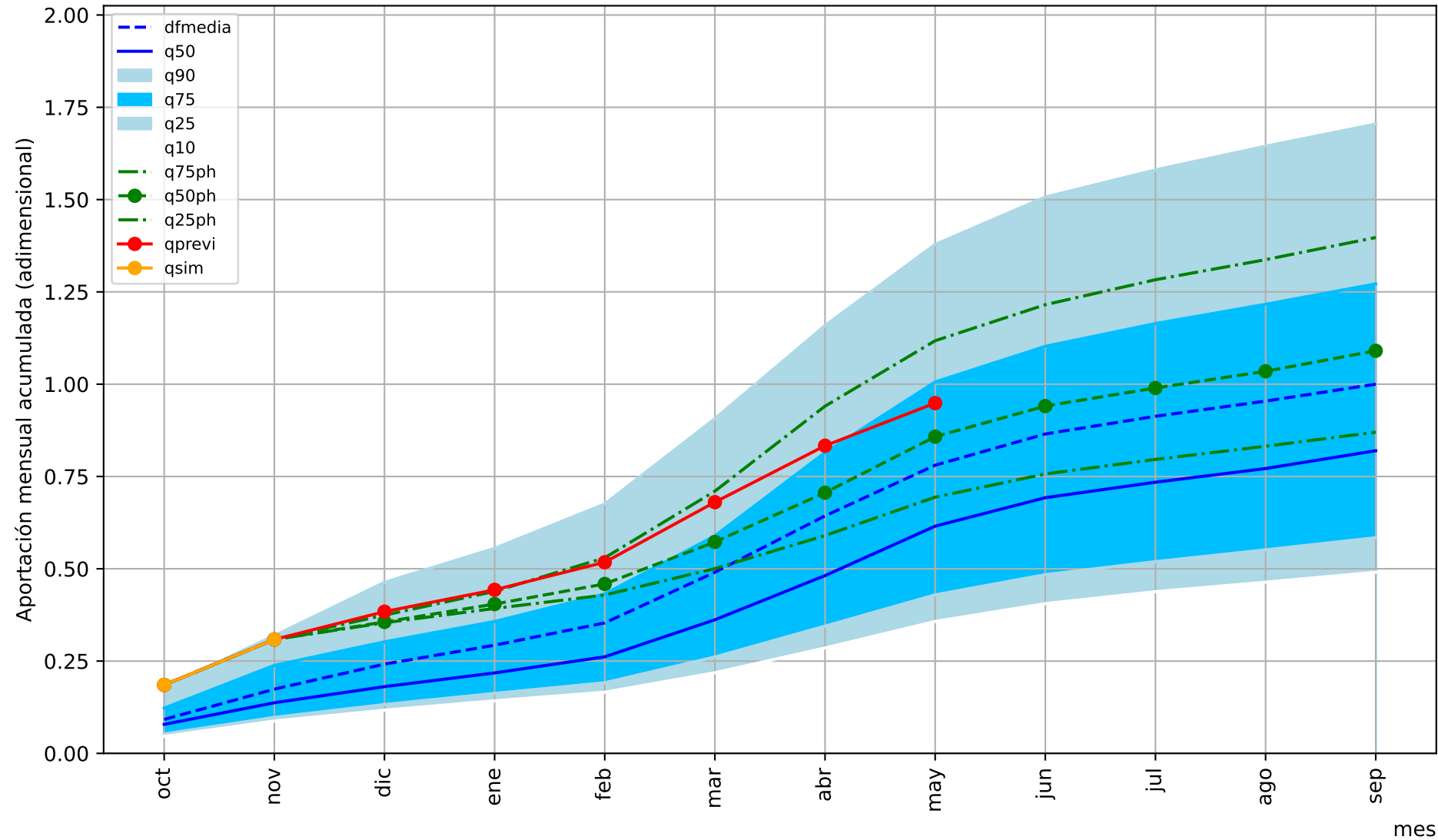
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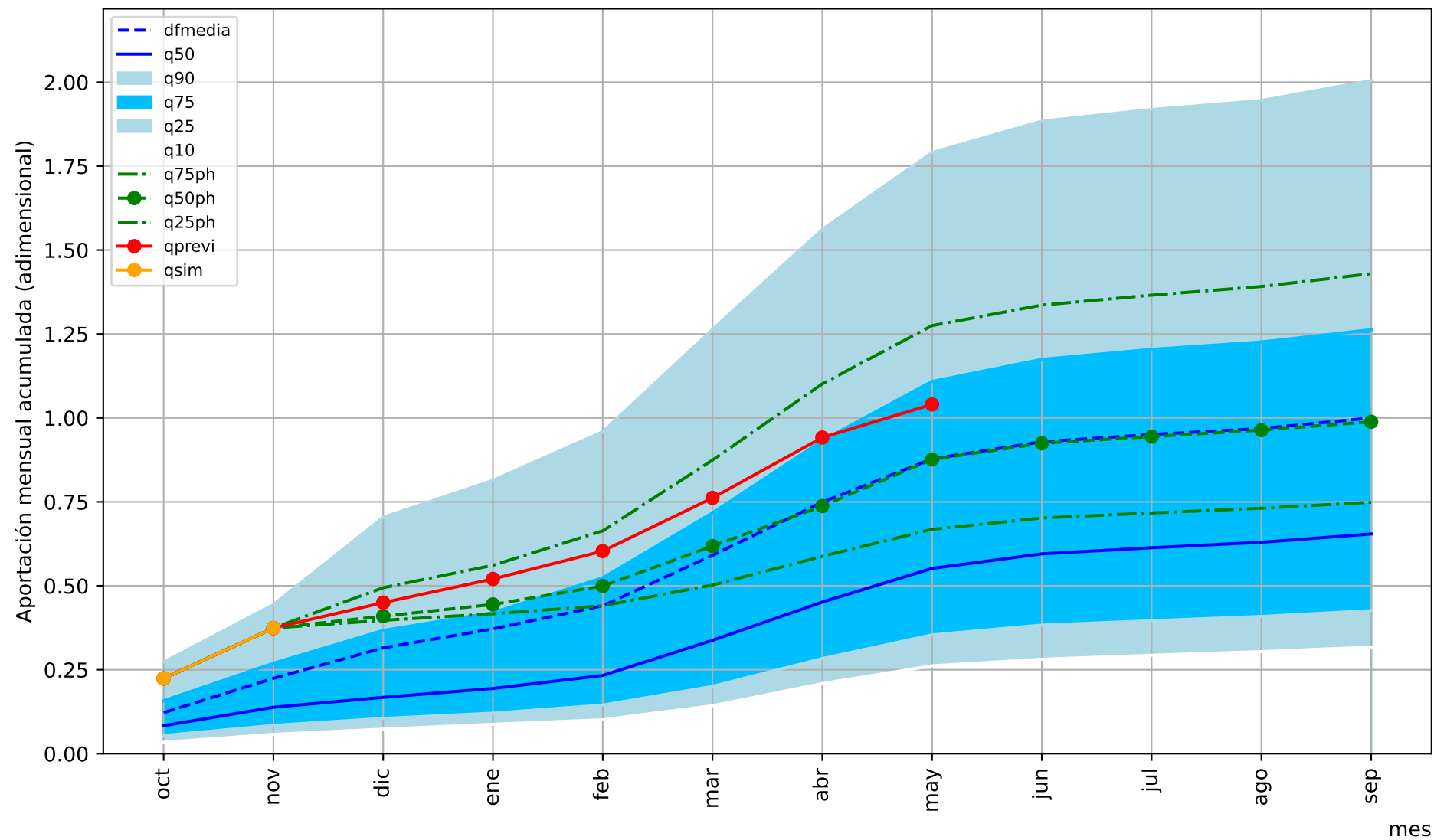


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Predicción cuenca del:

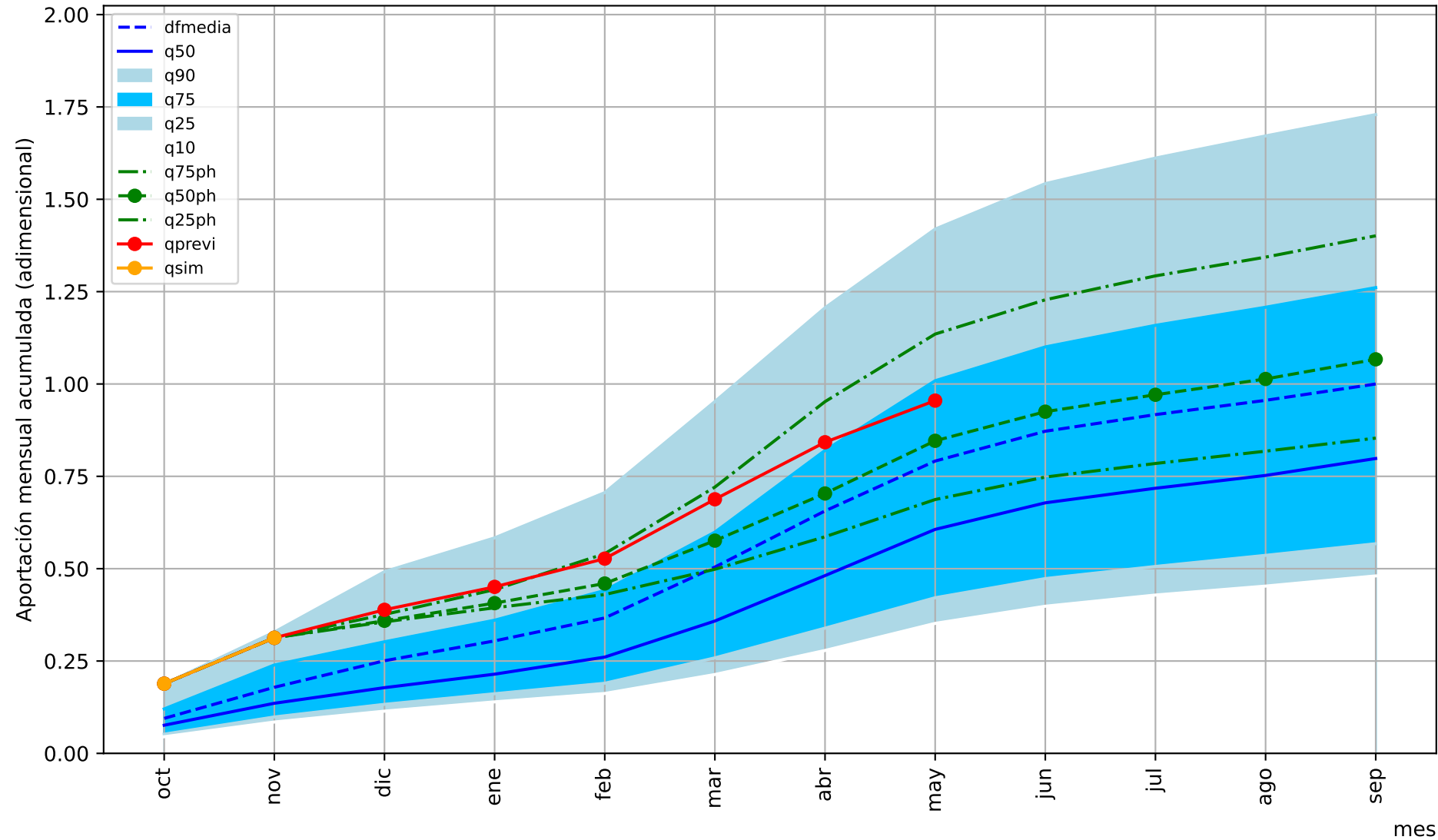
Río Duero aguas arriba del Tormes (emb Castro, Villalcampo)

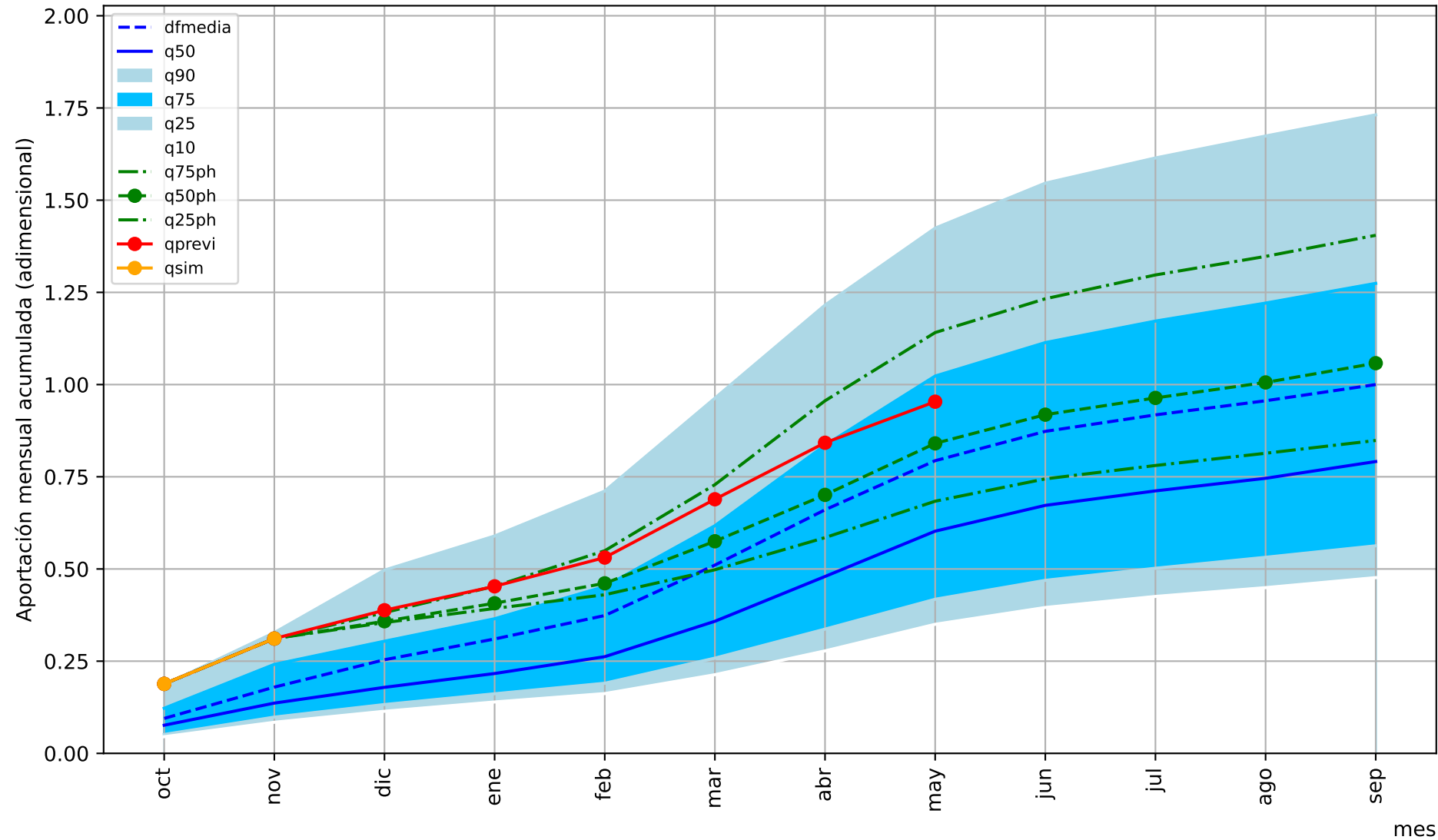




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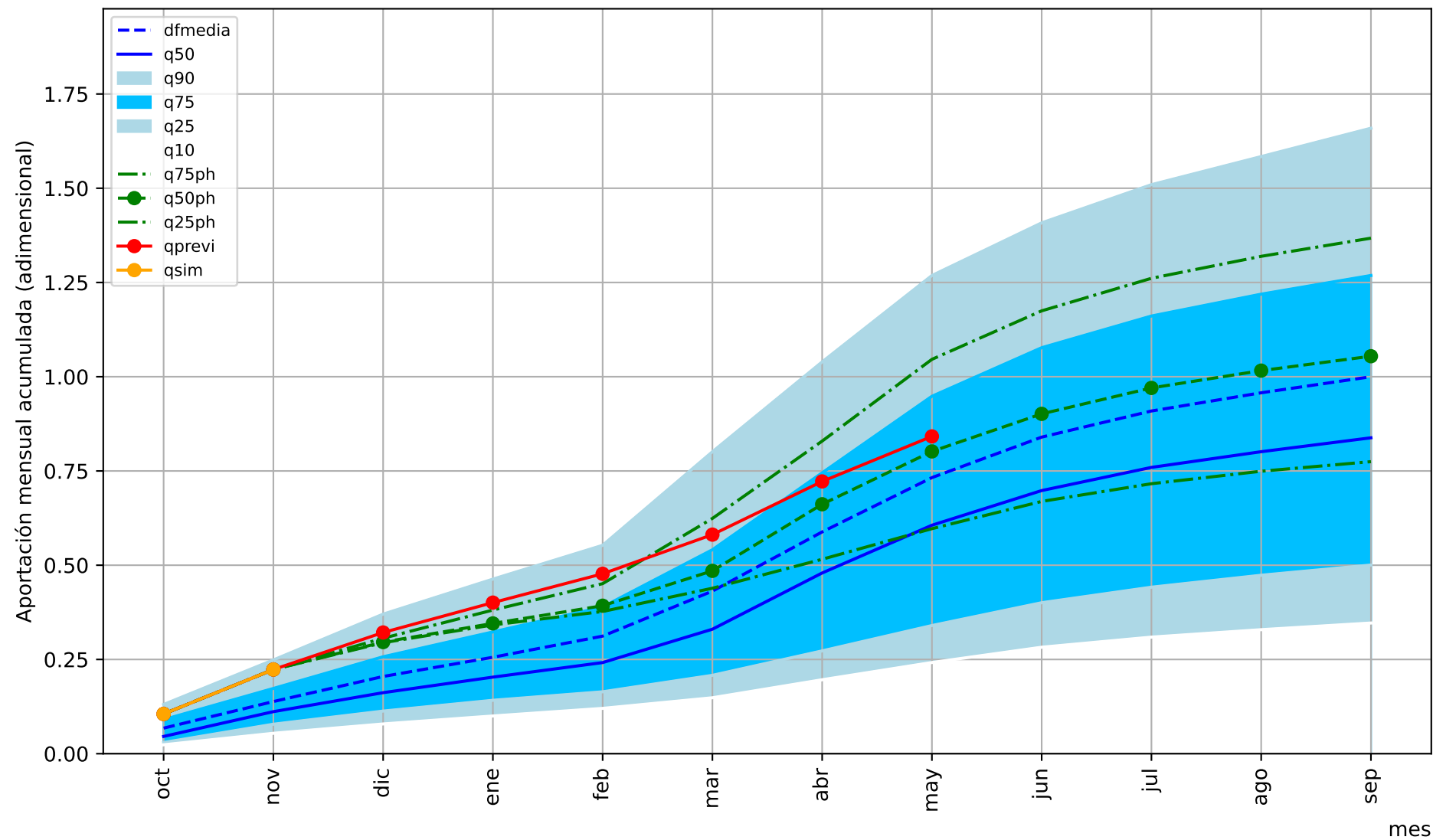
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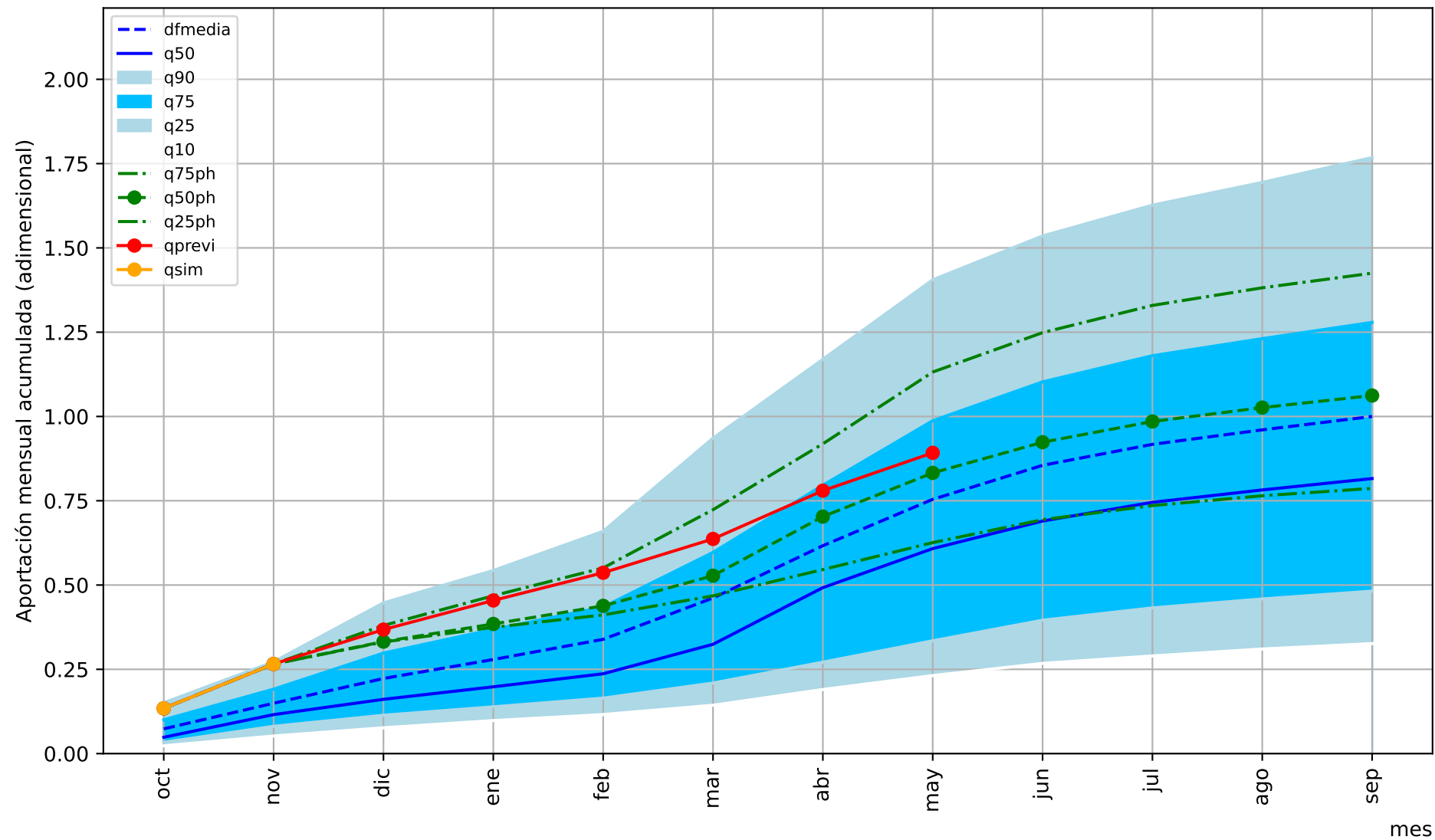


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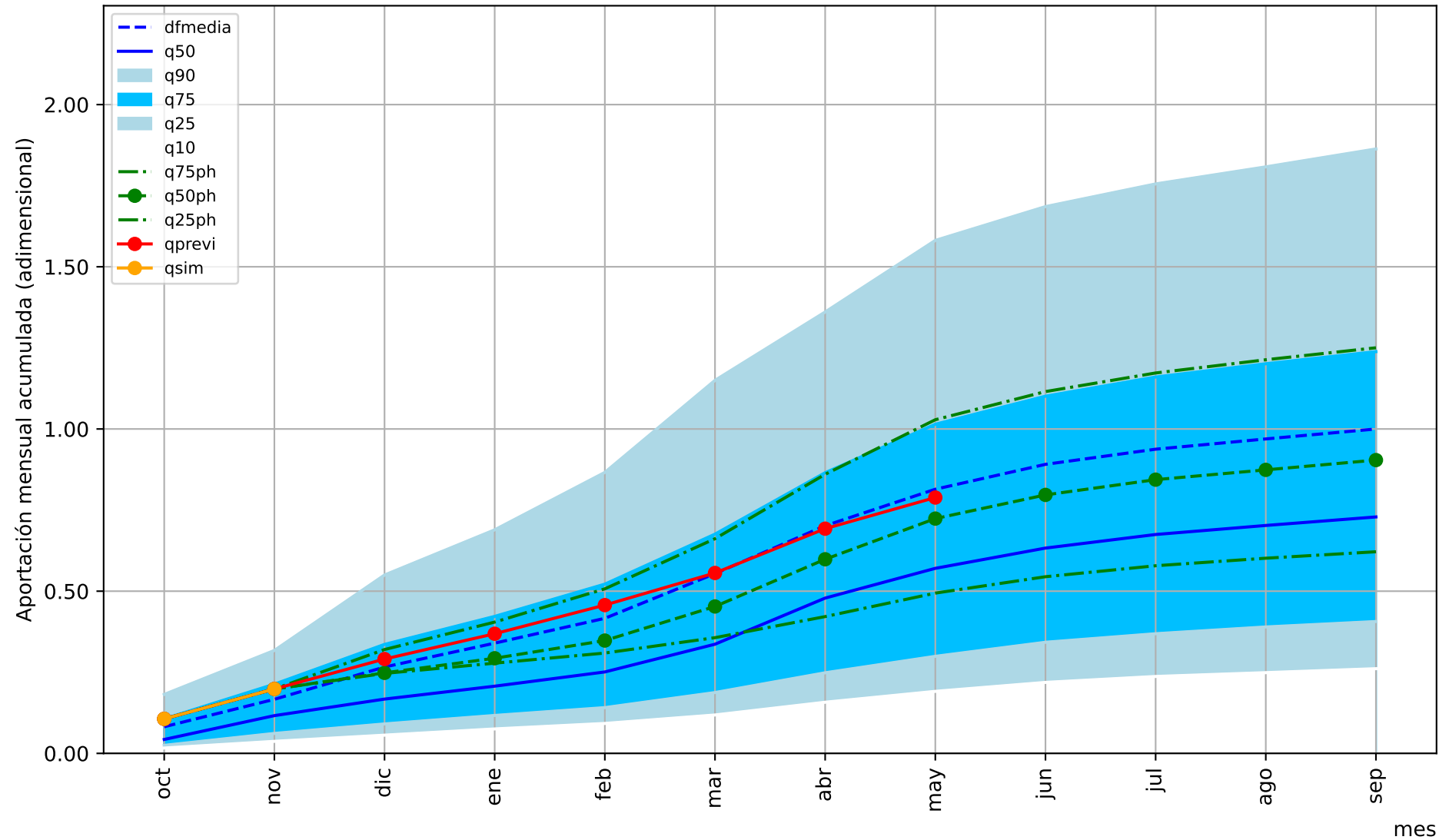


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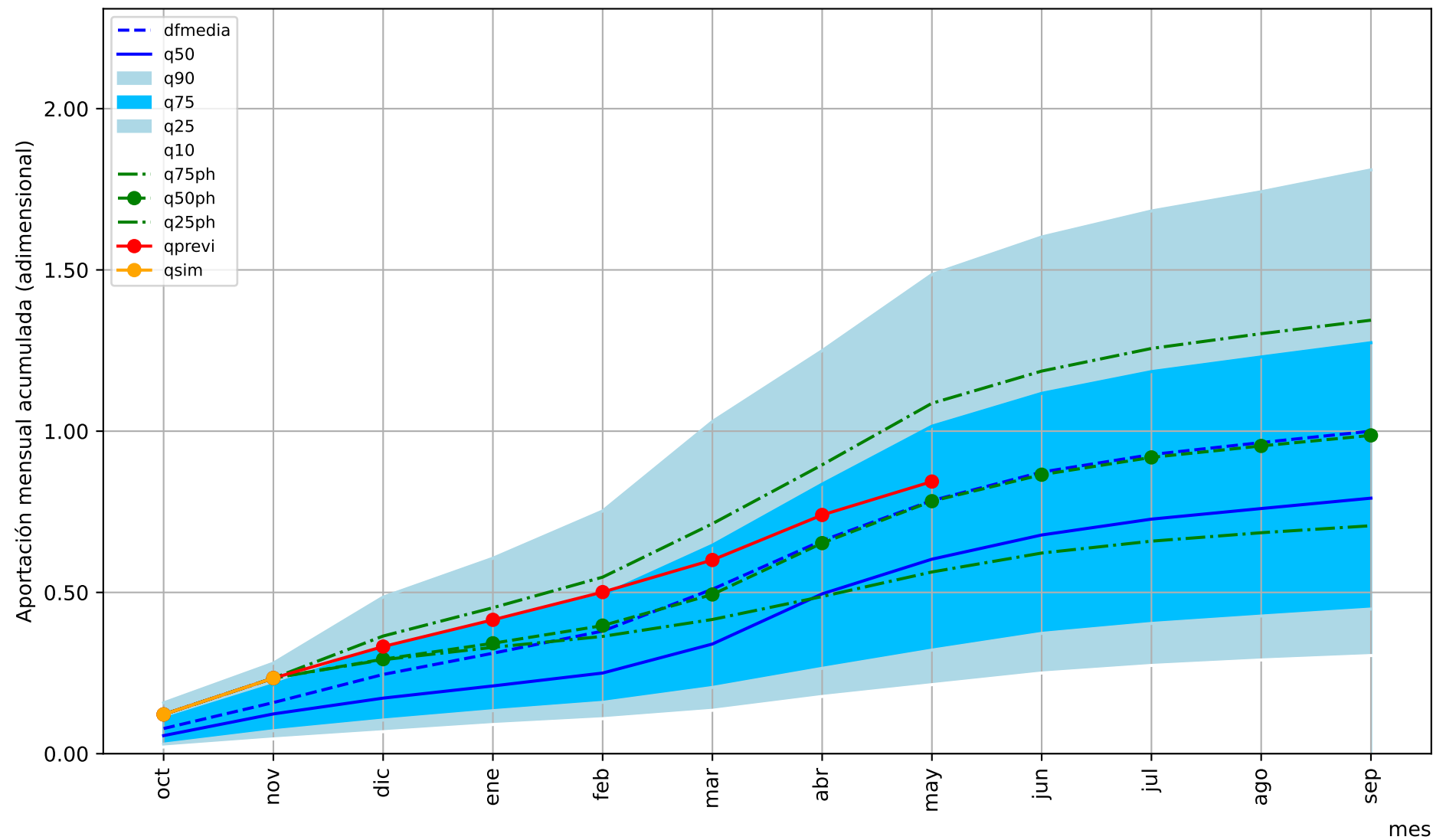


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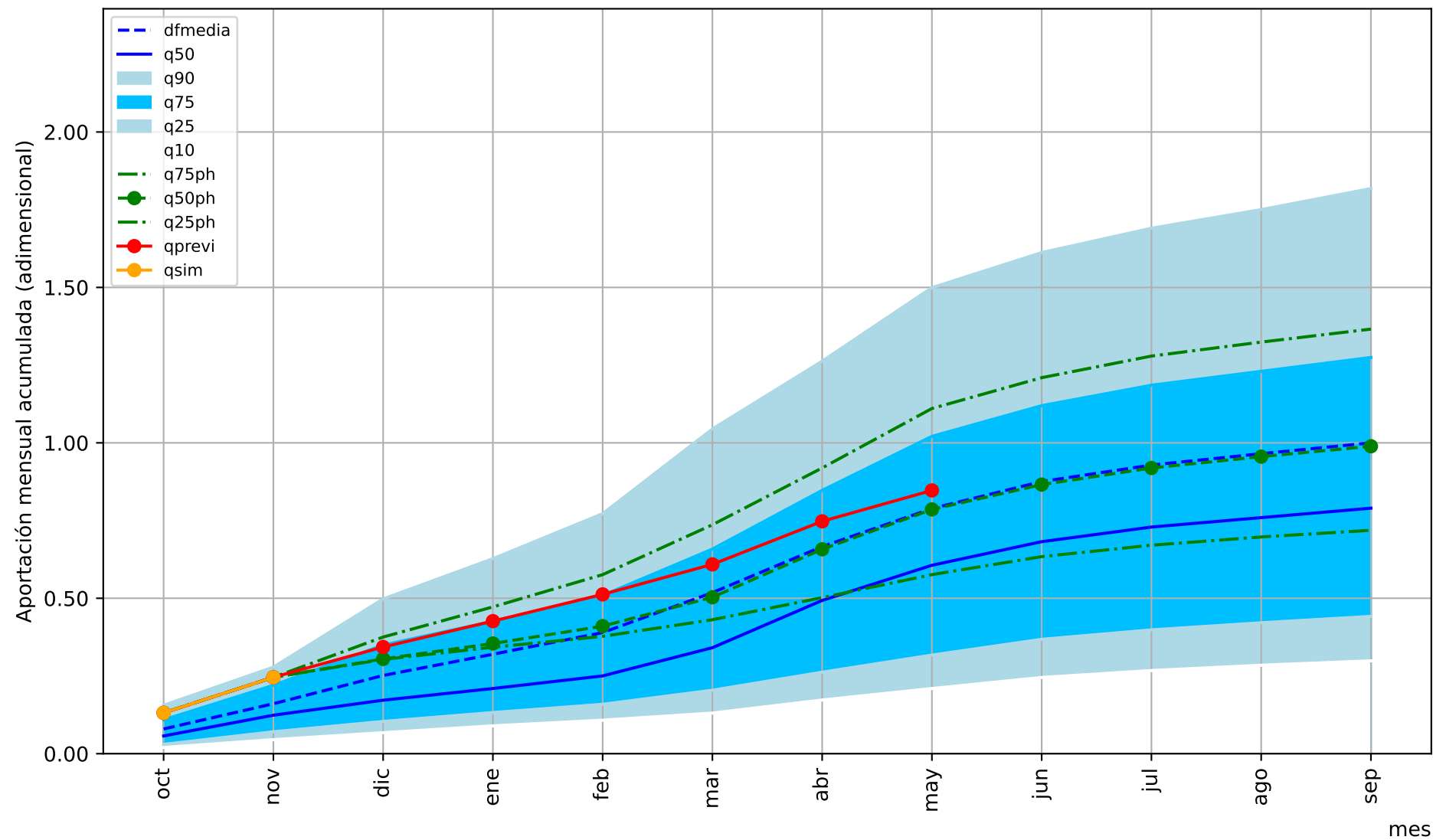
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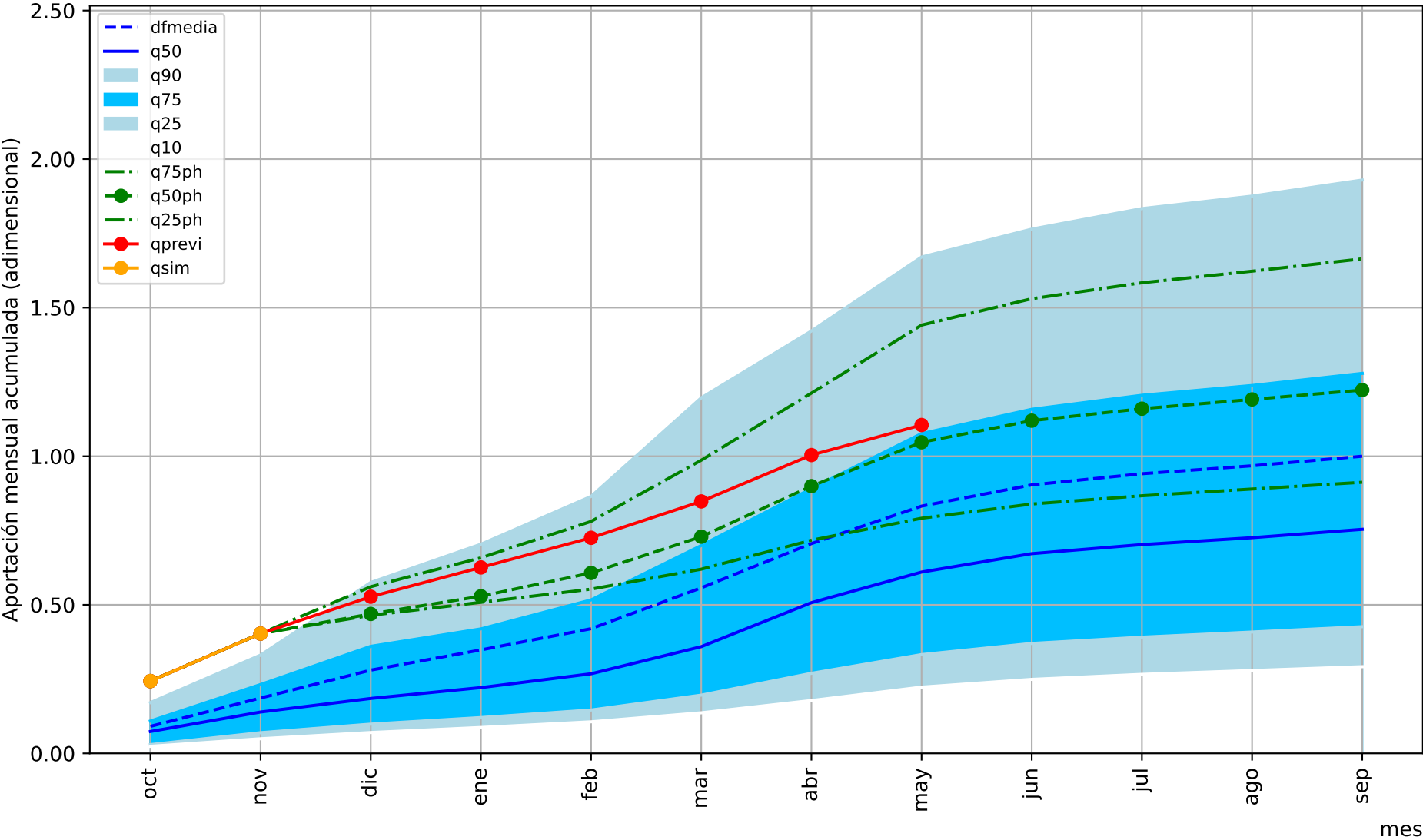


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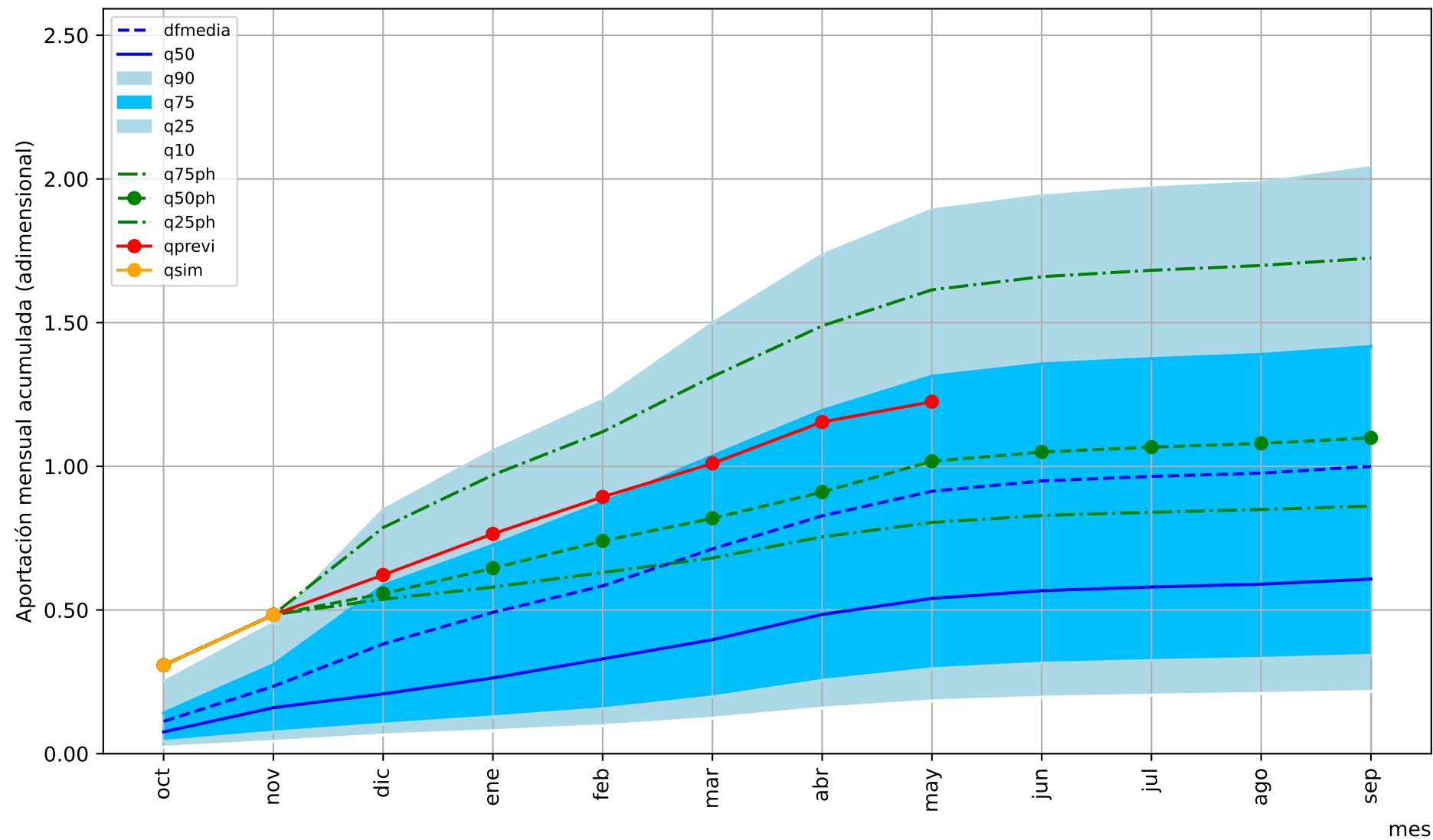


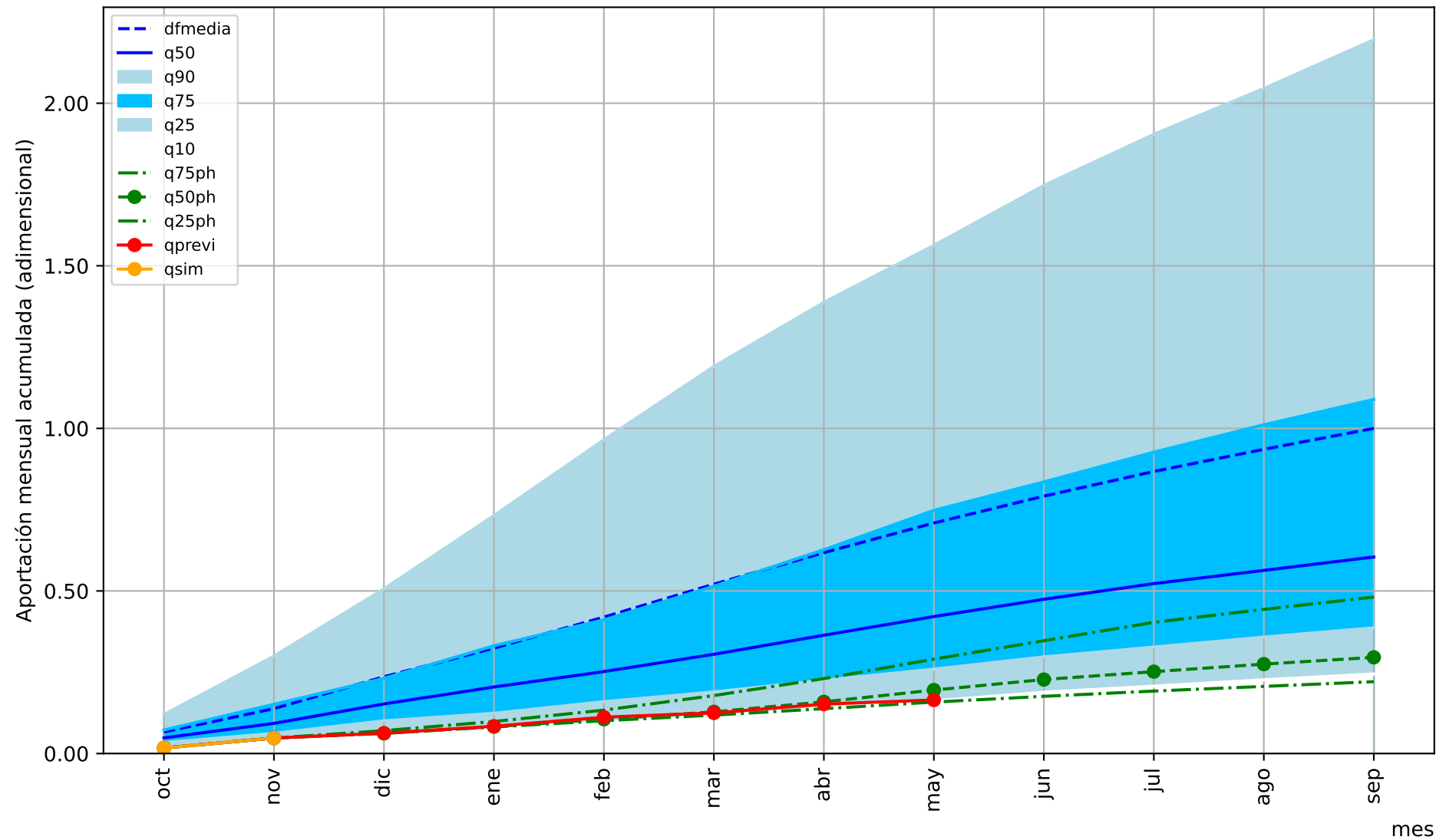
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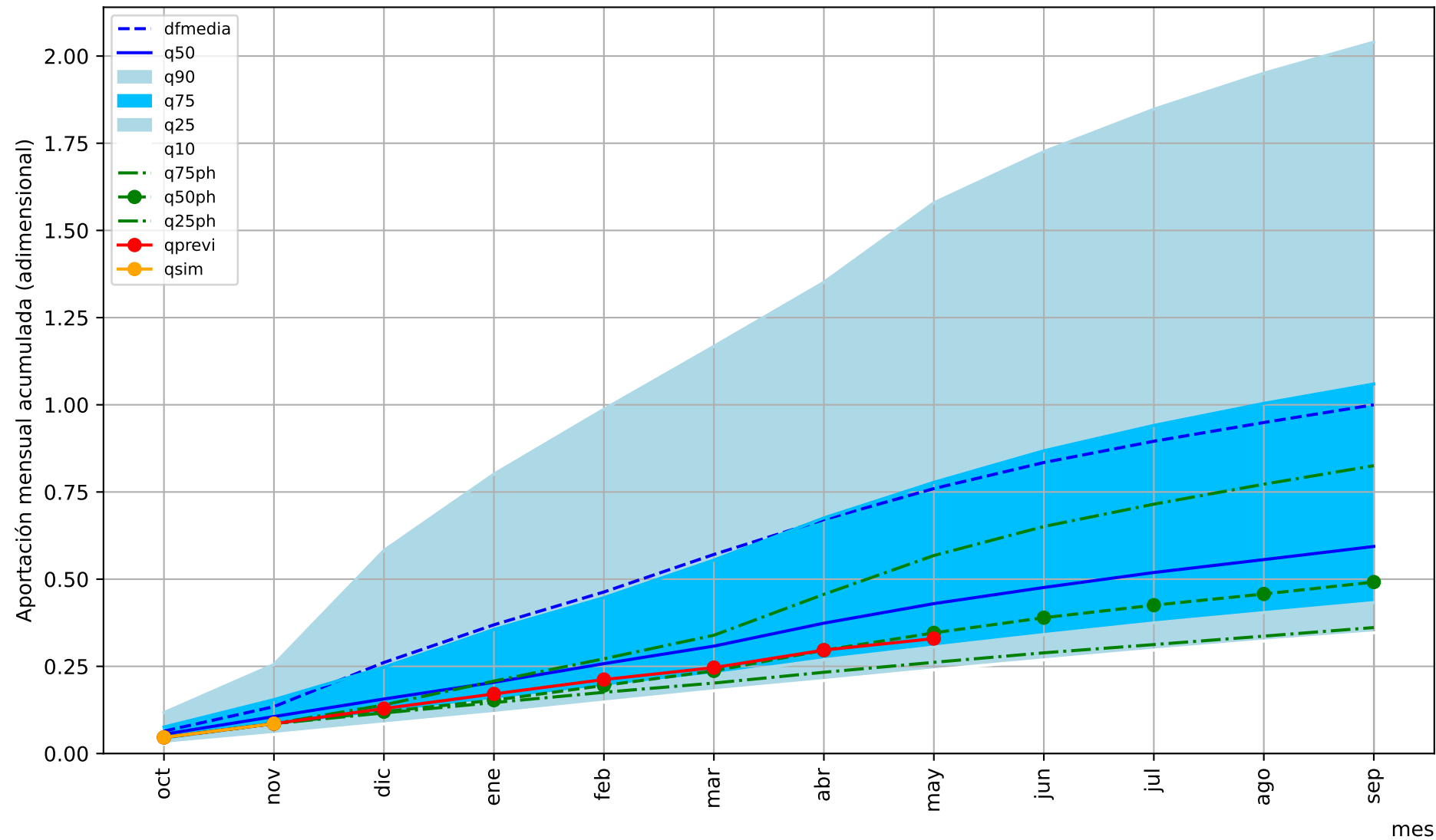


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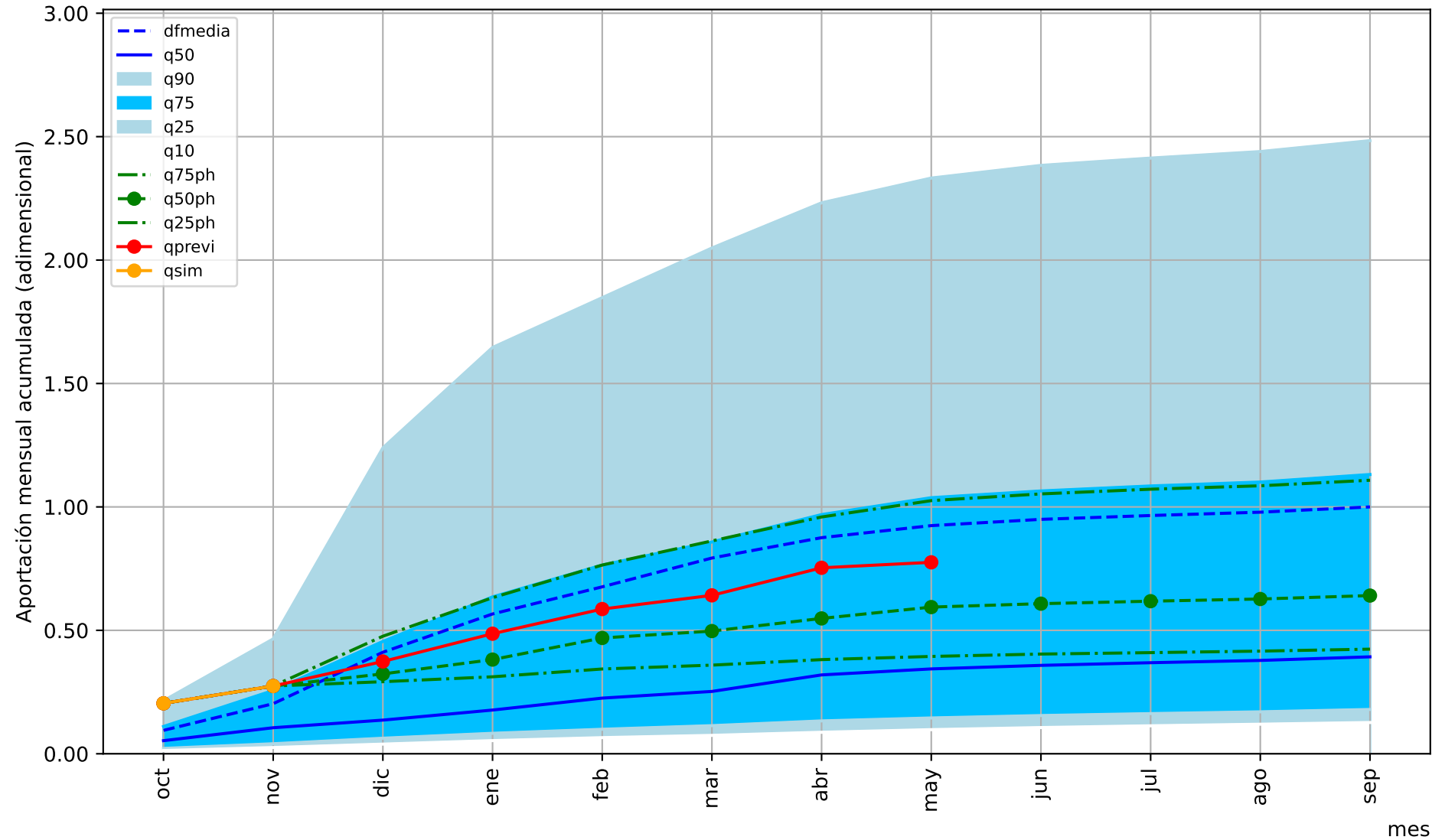




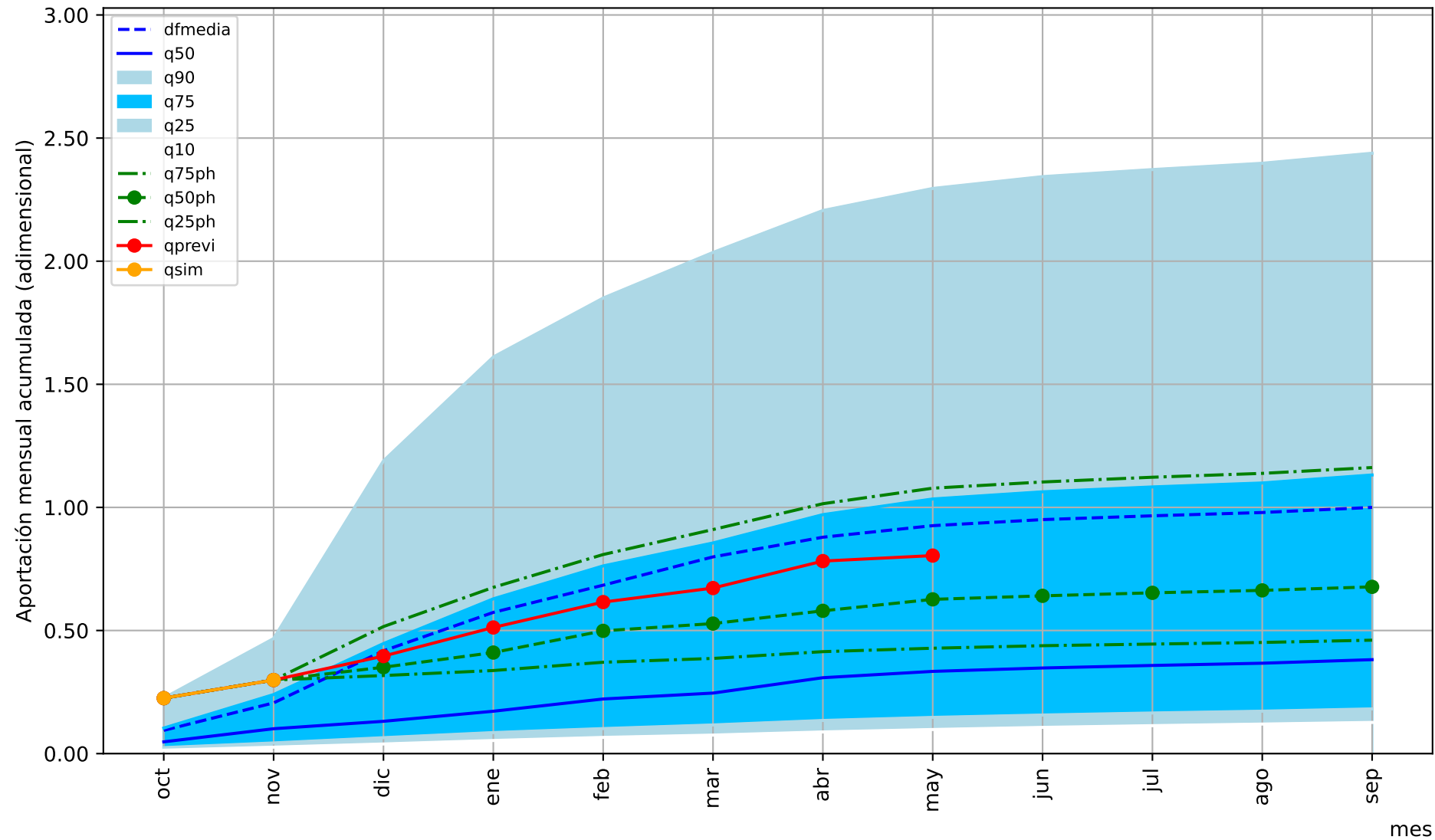
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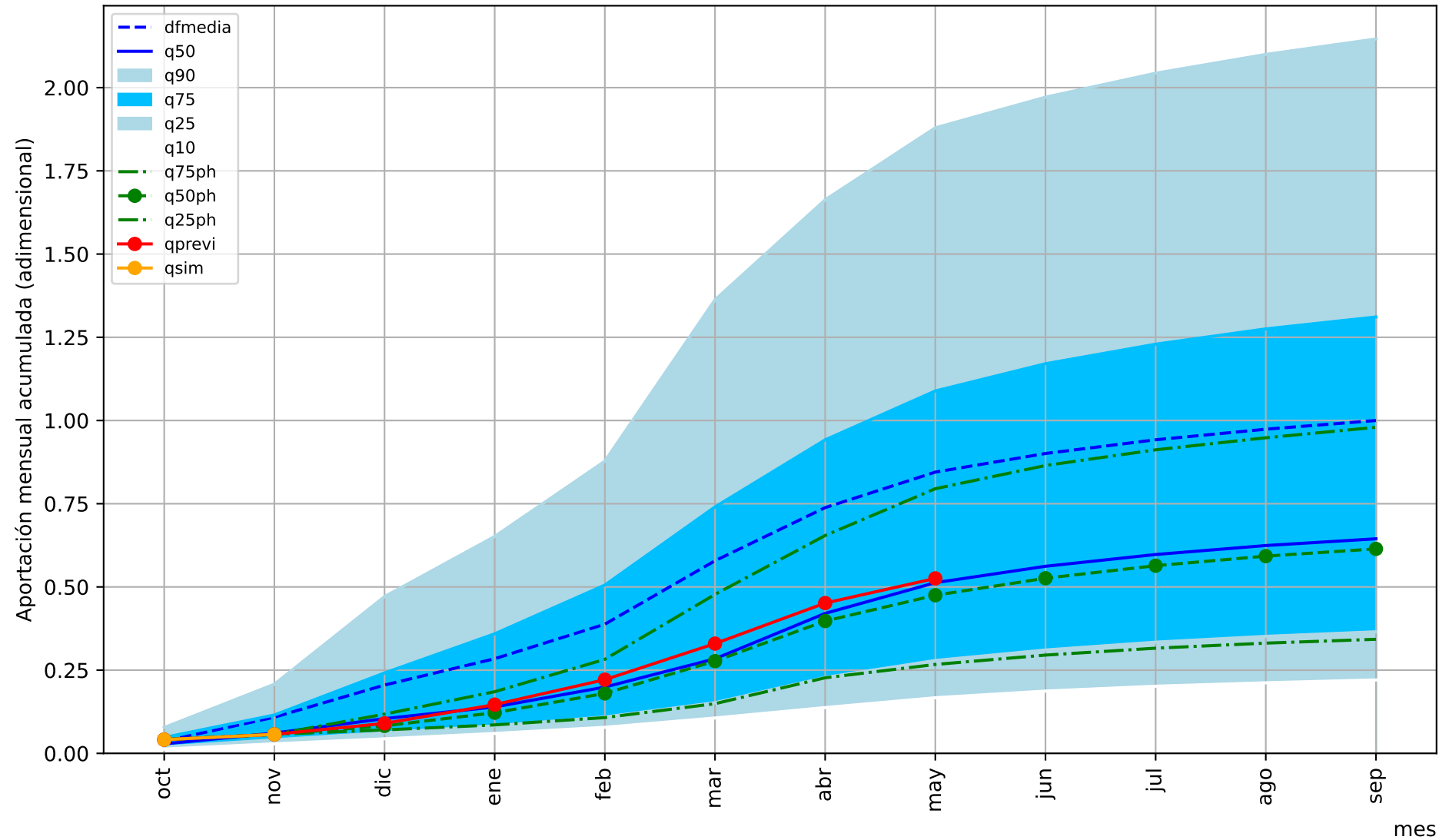


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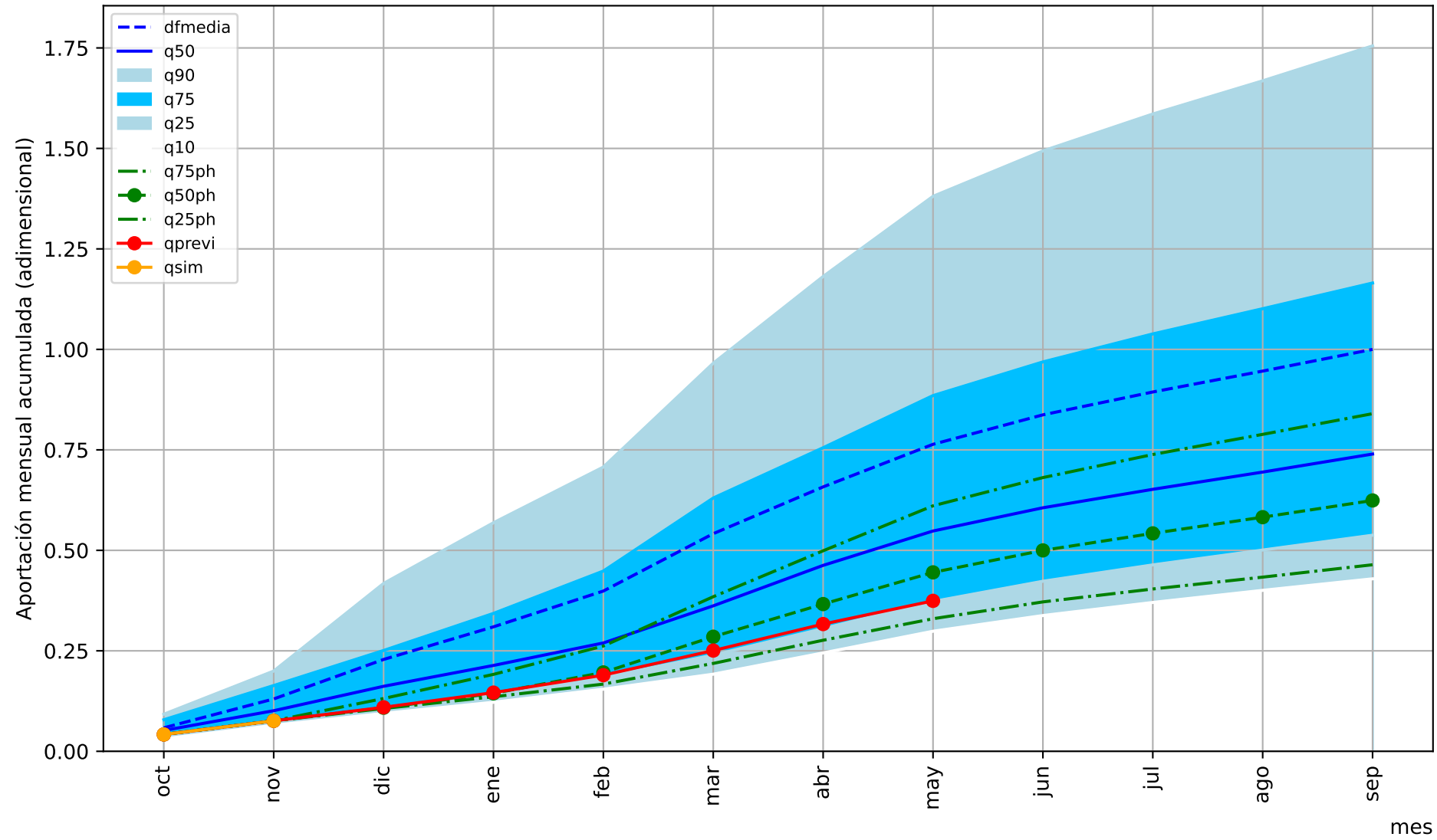
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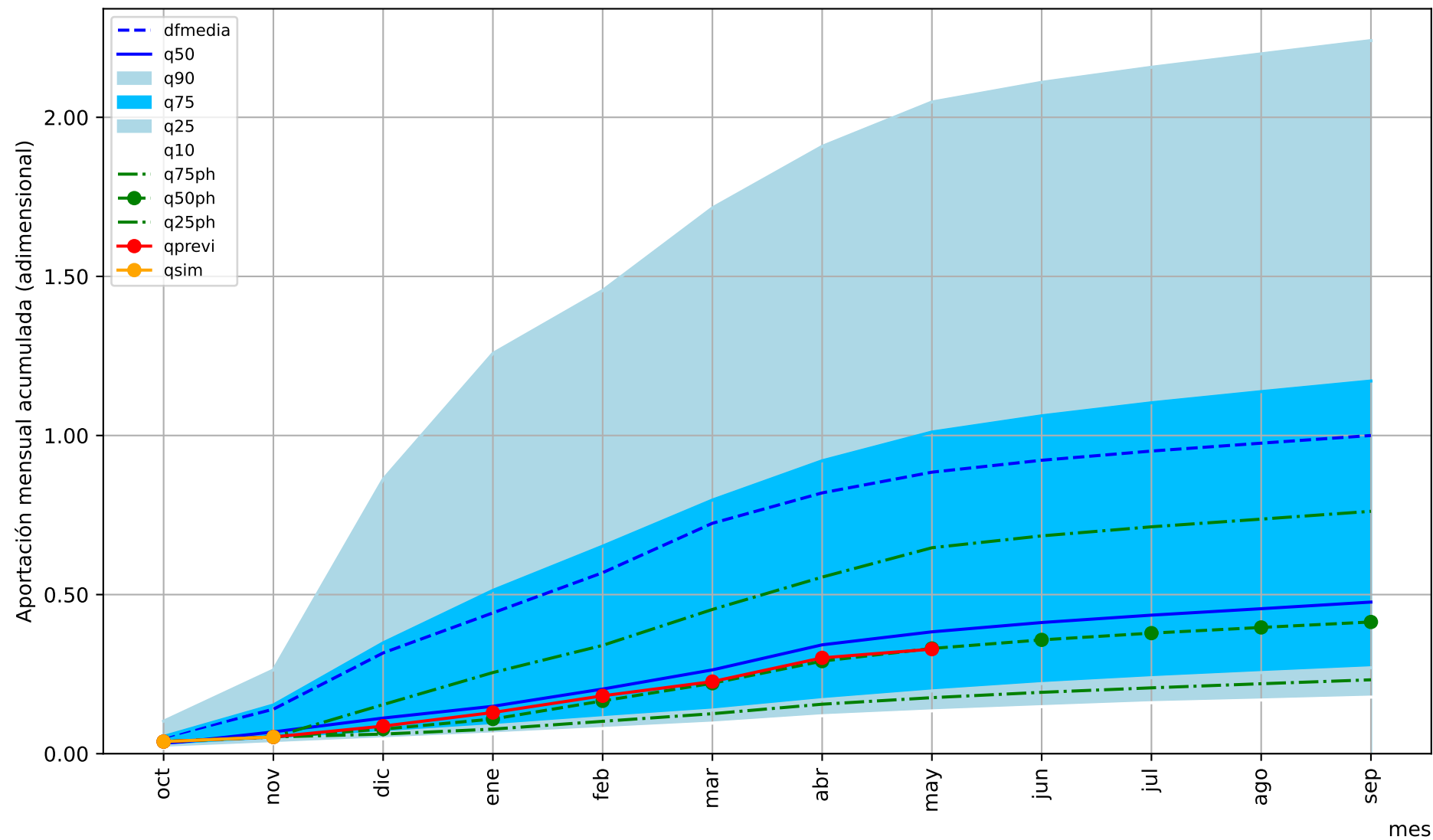


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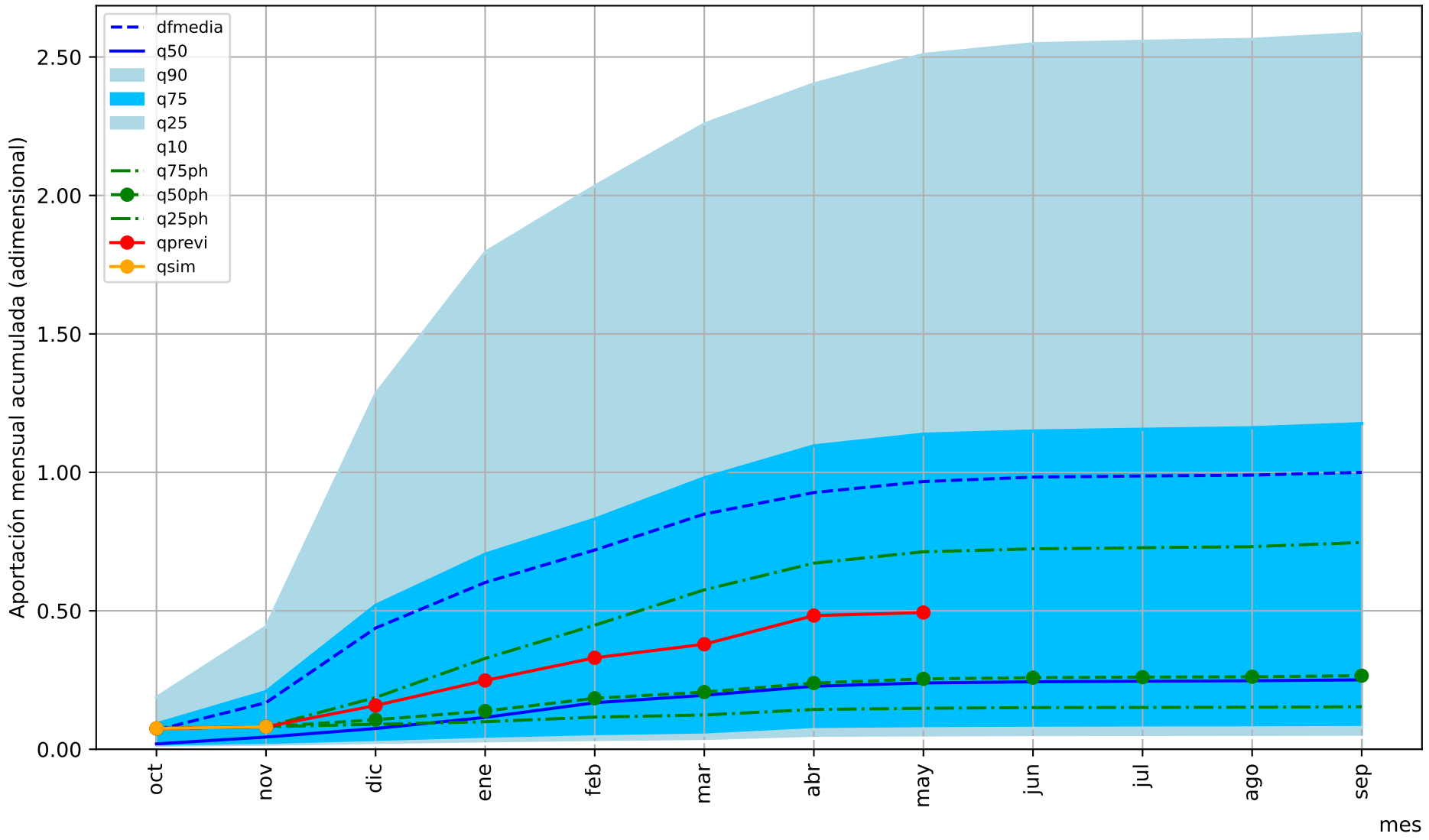
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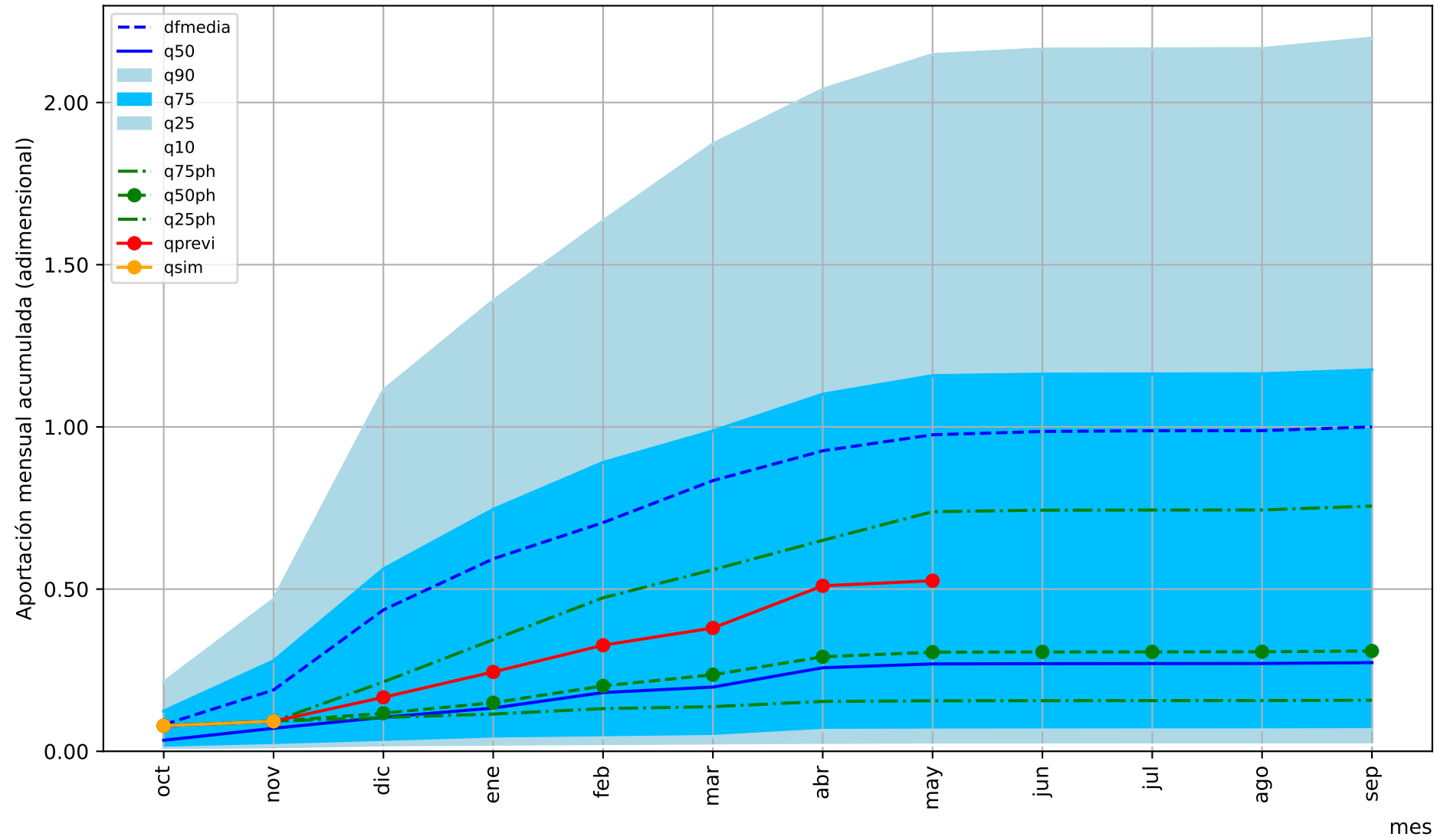
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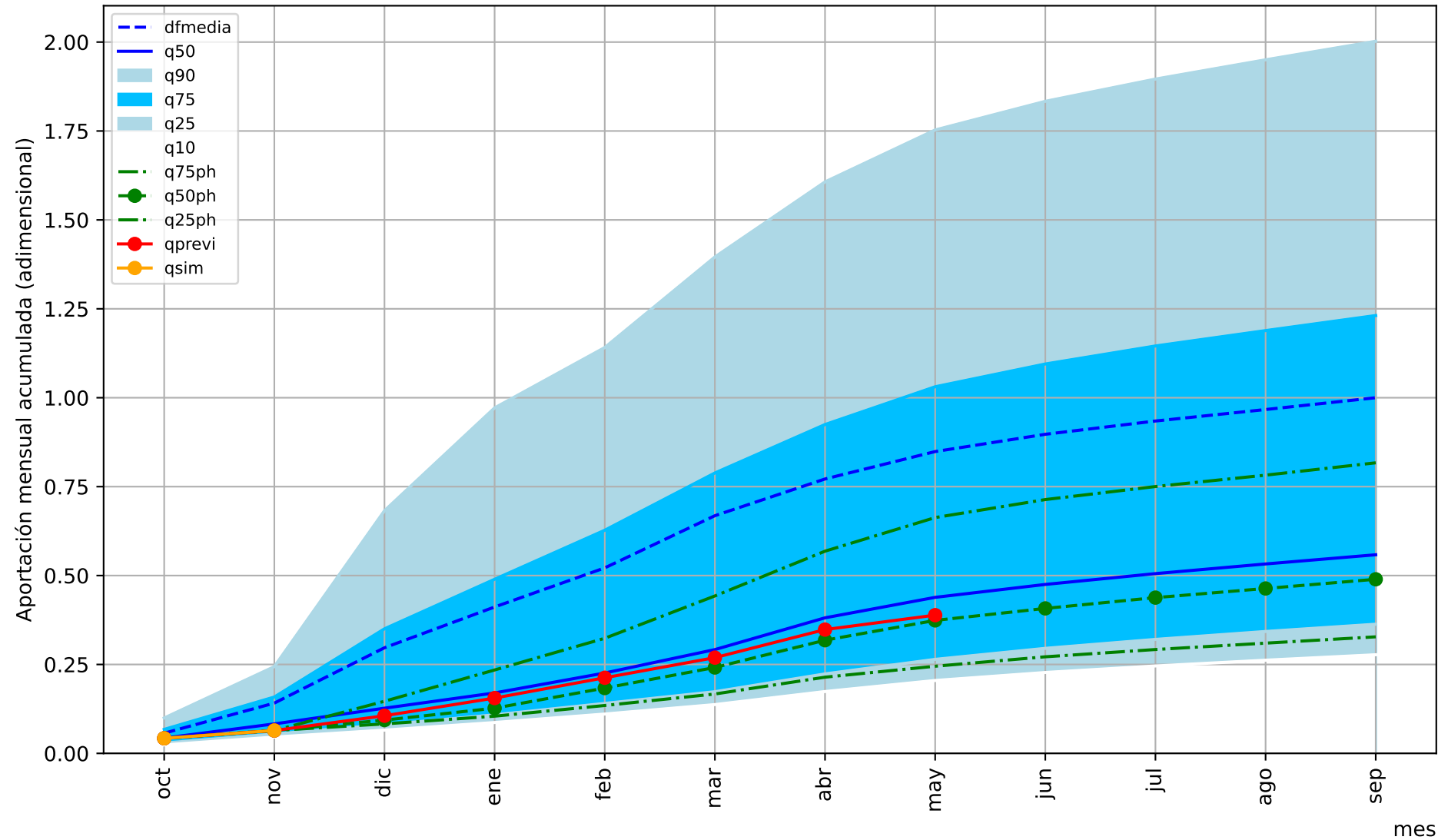
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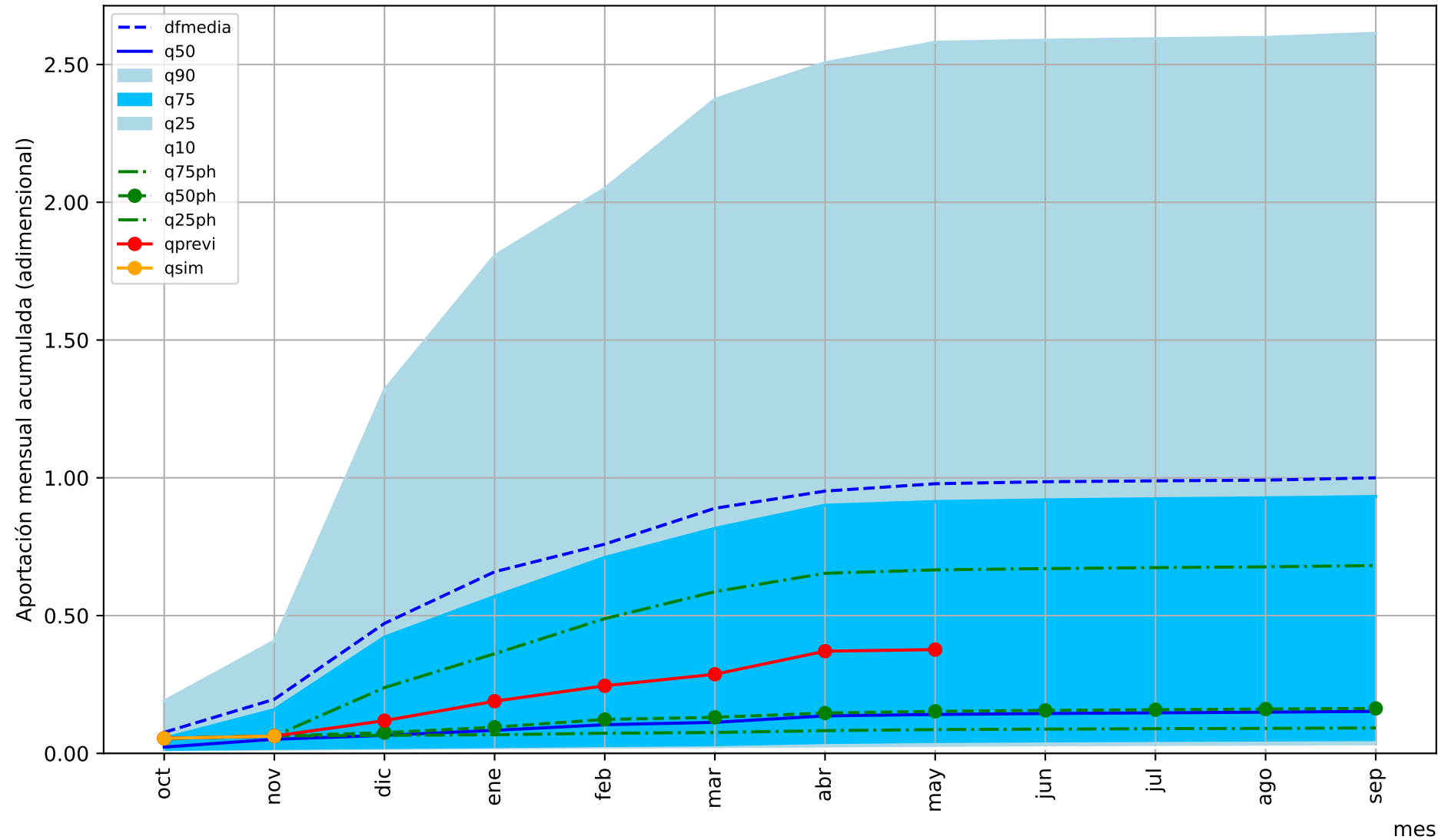


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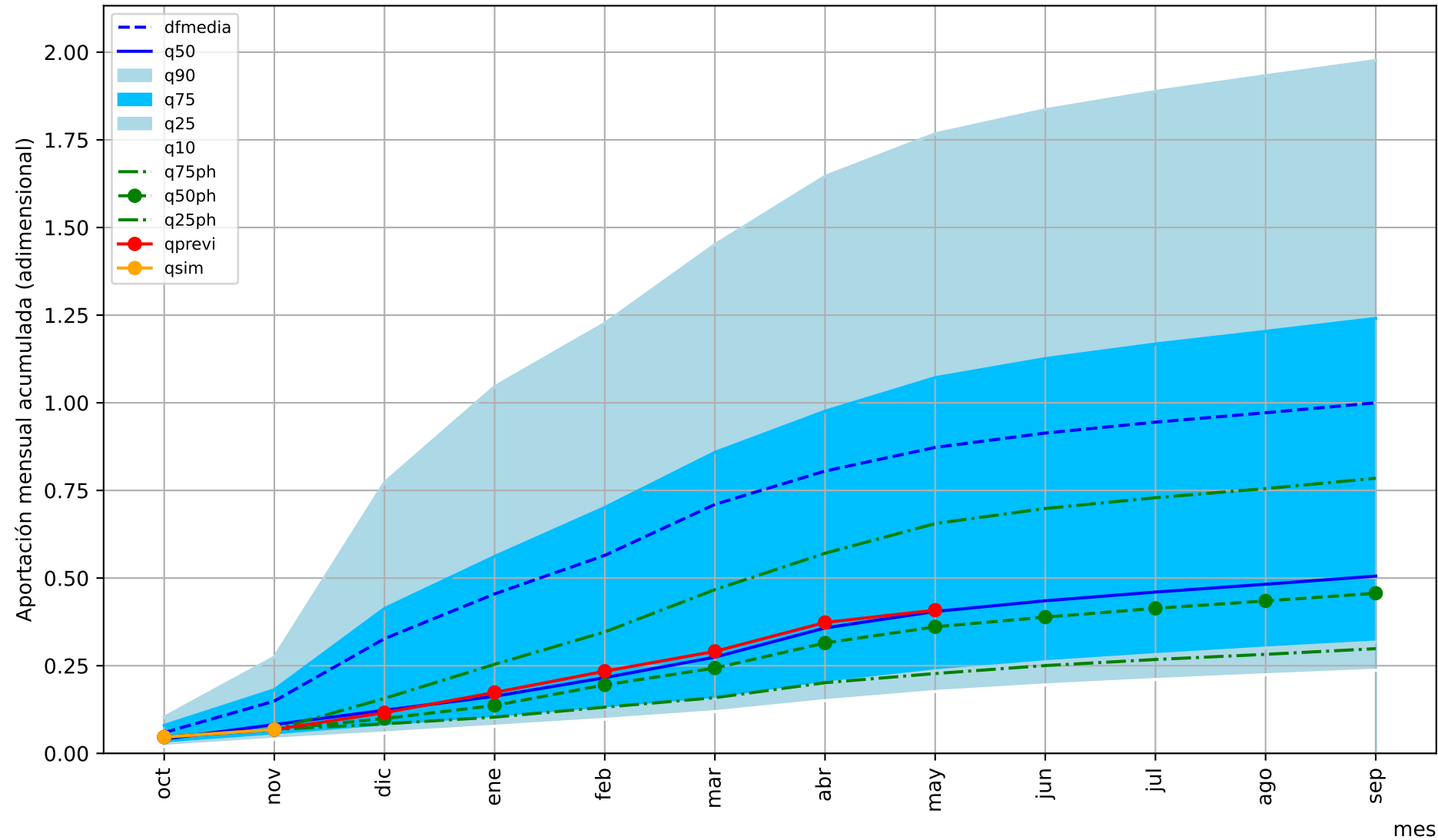


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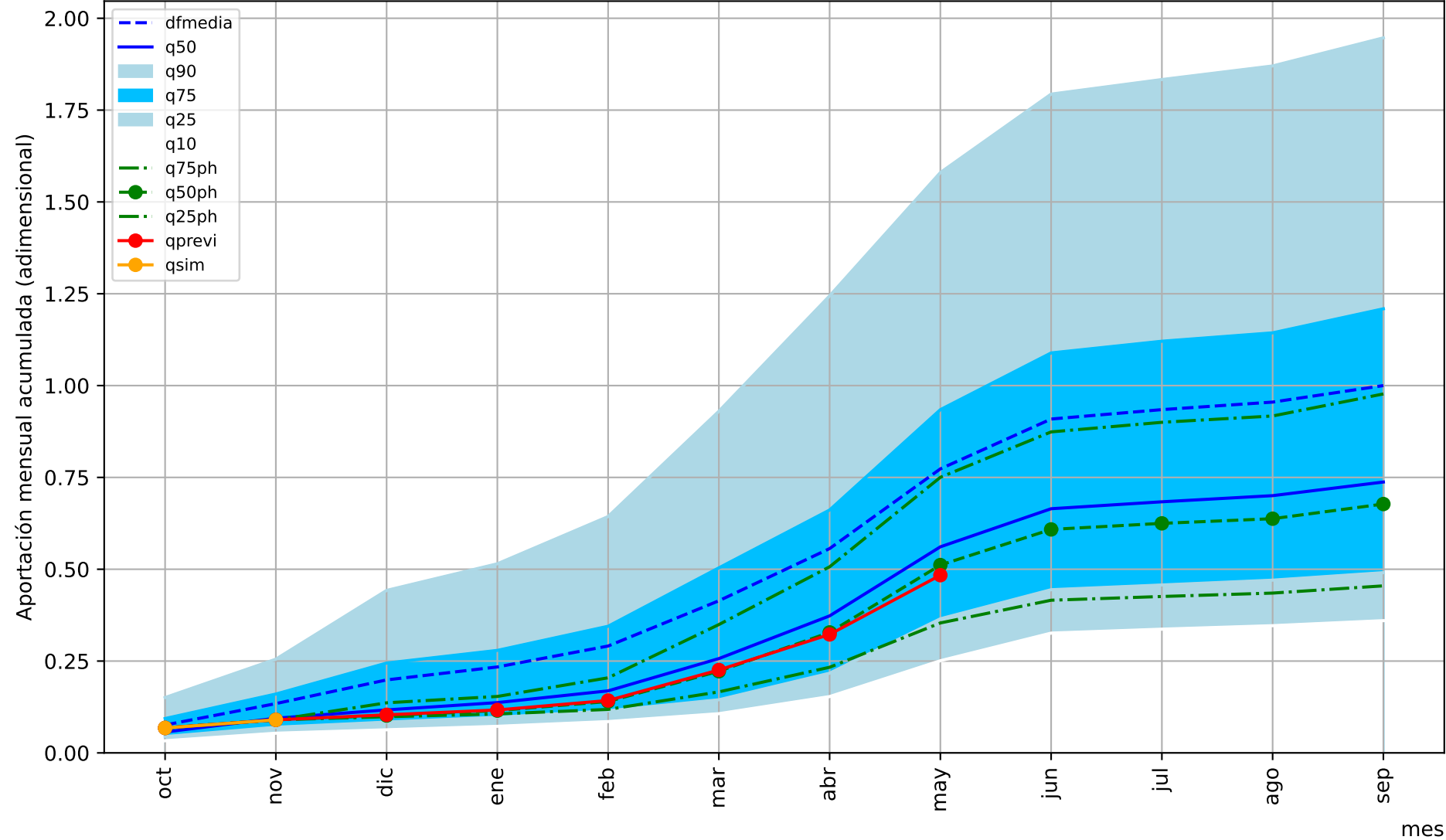




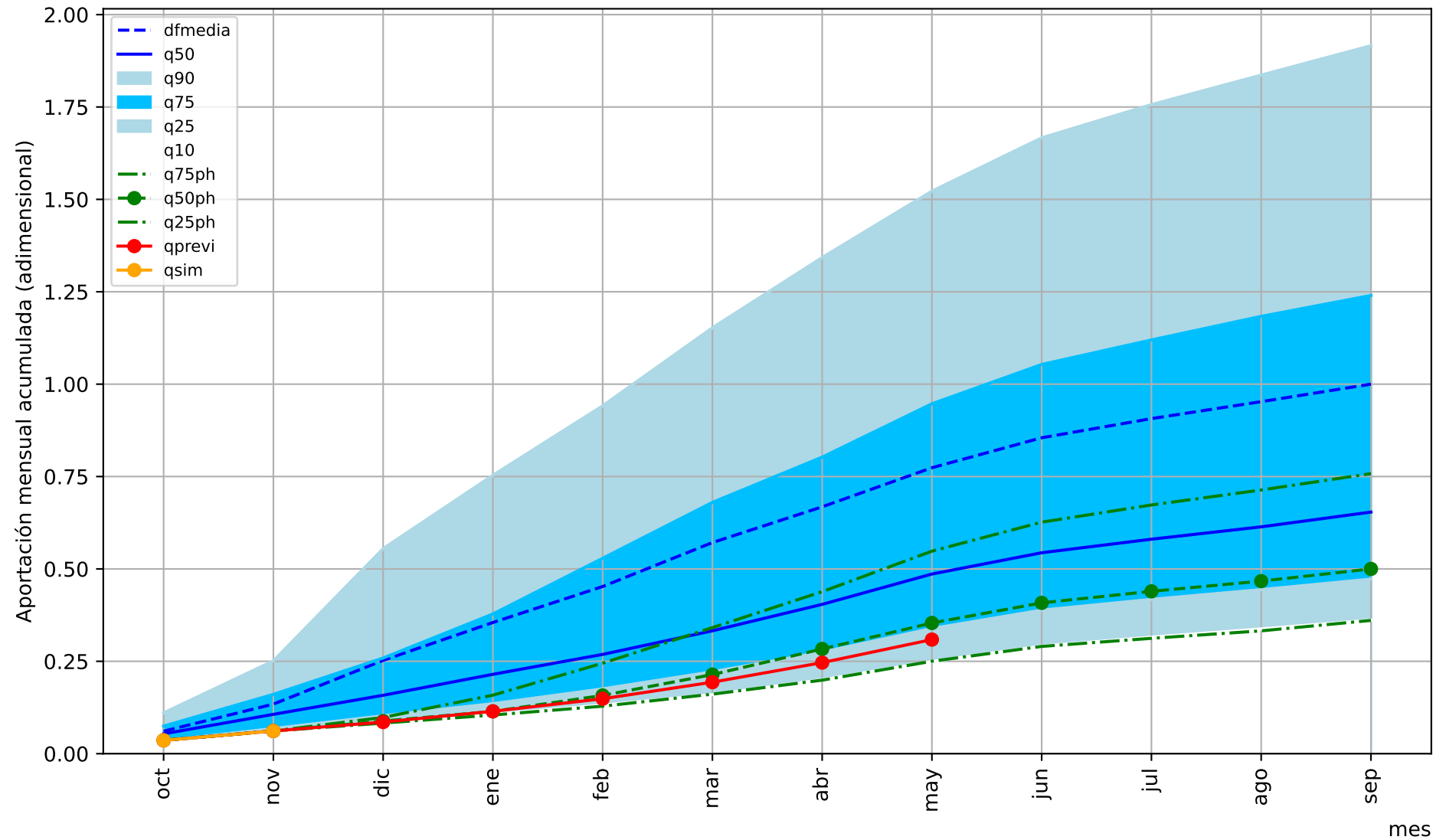
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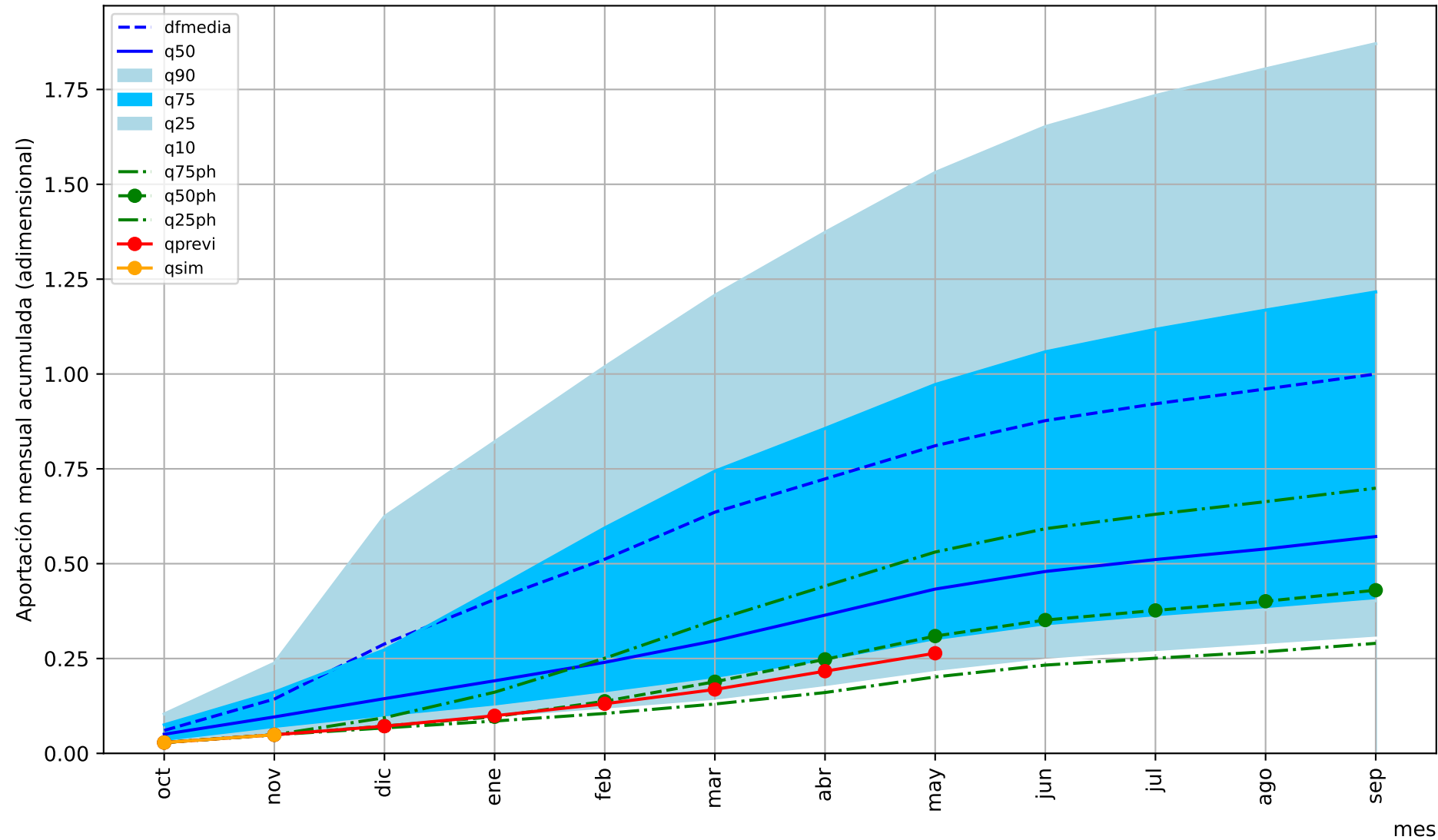


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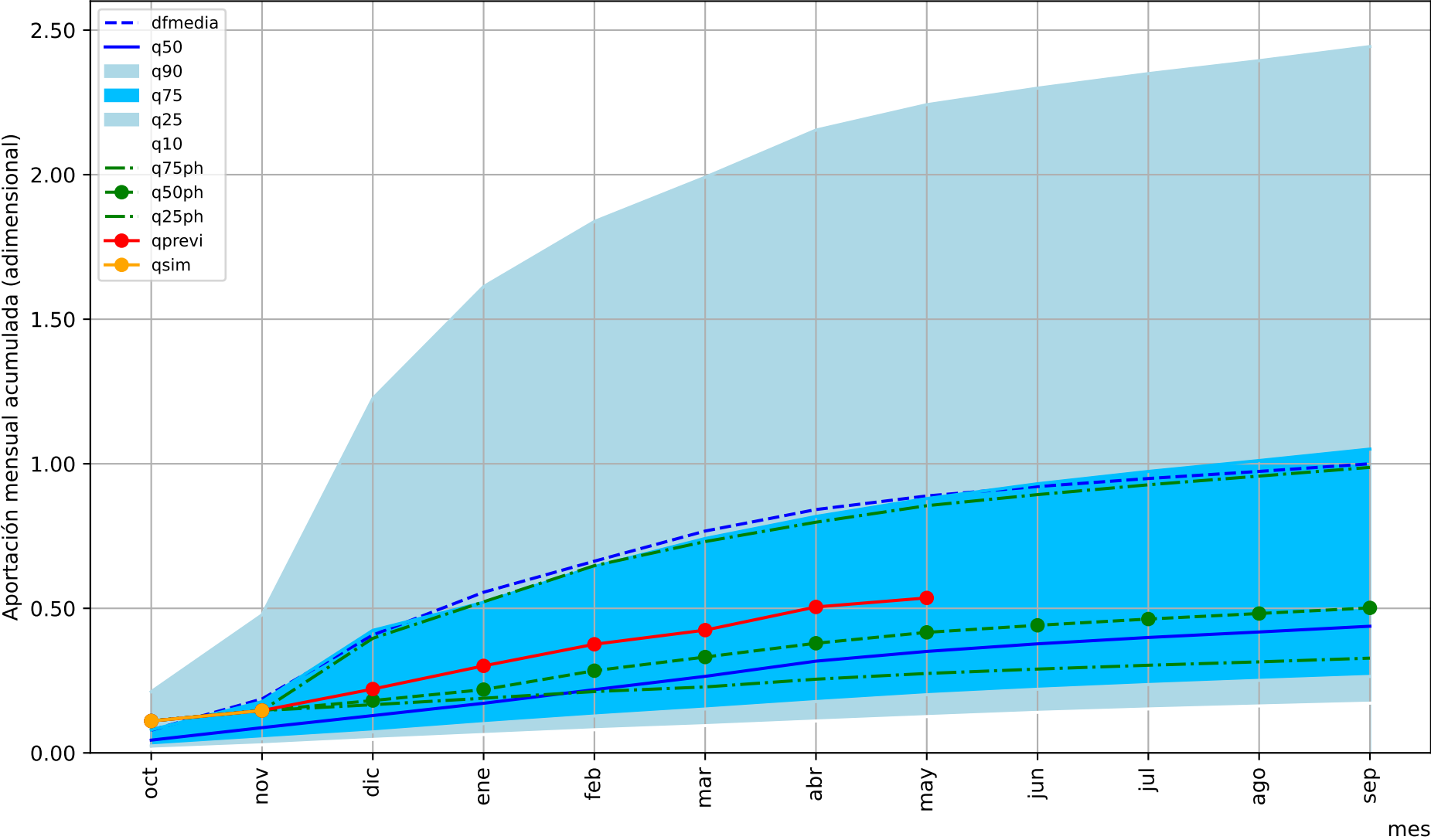


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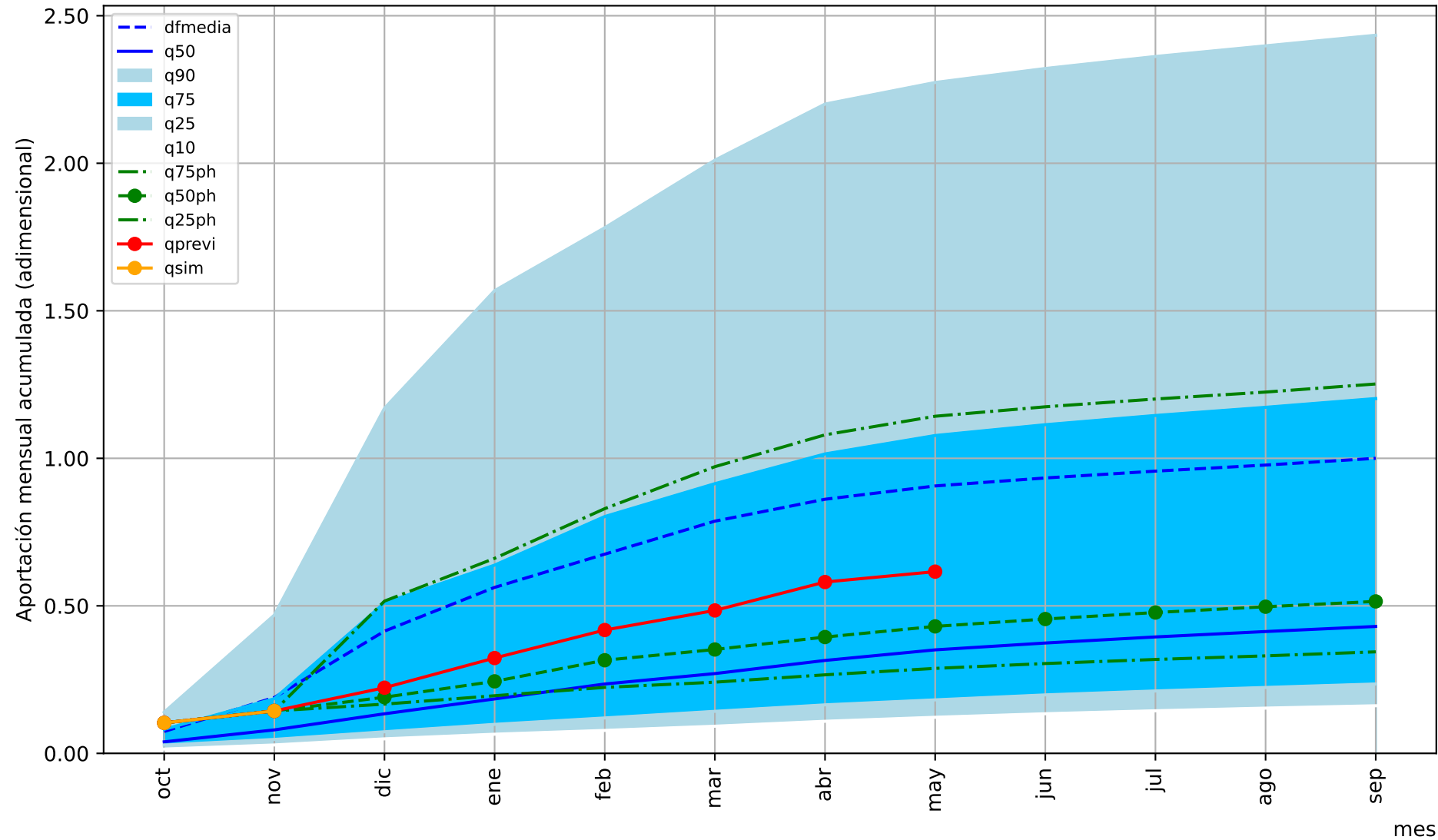


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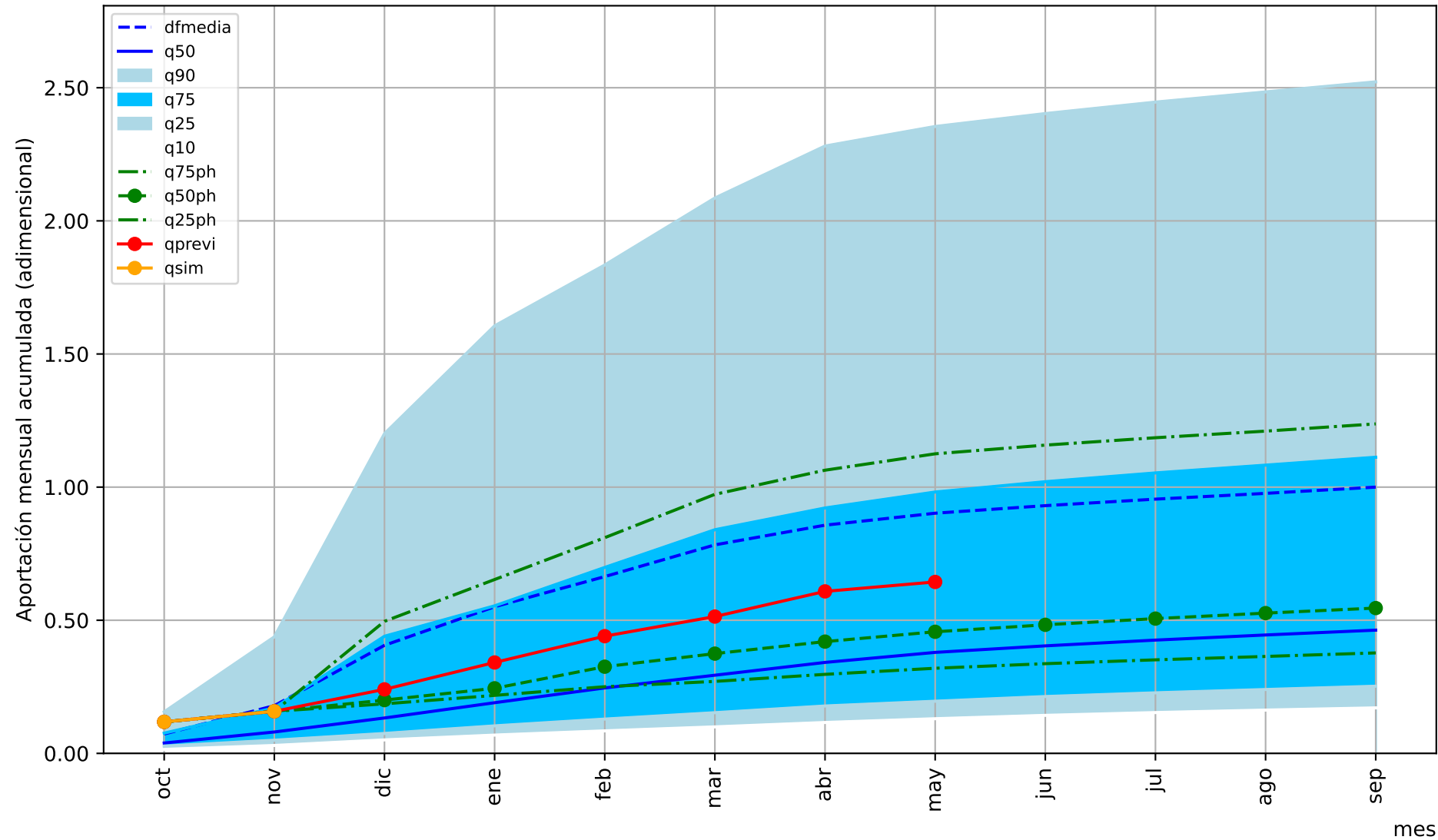


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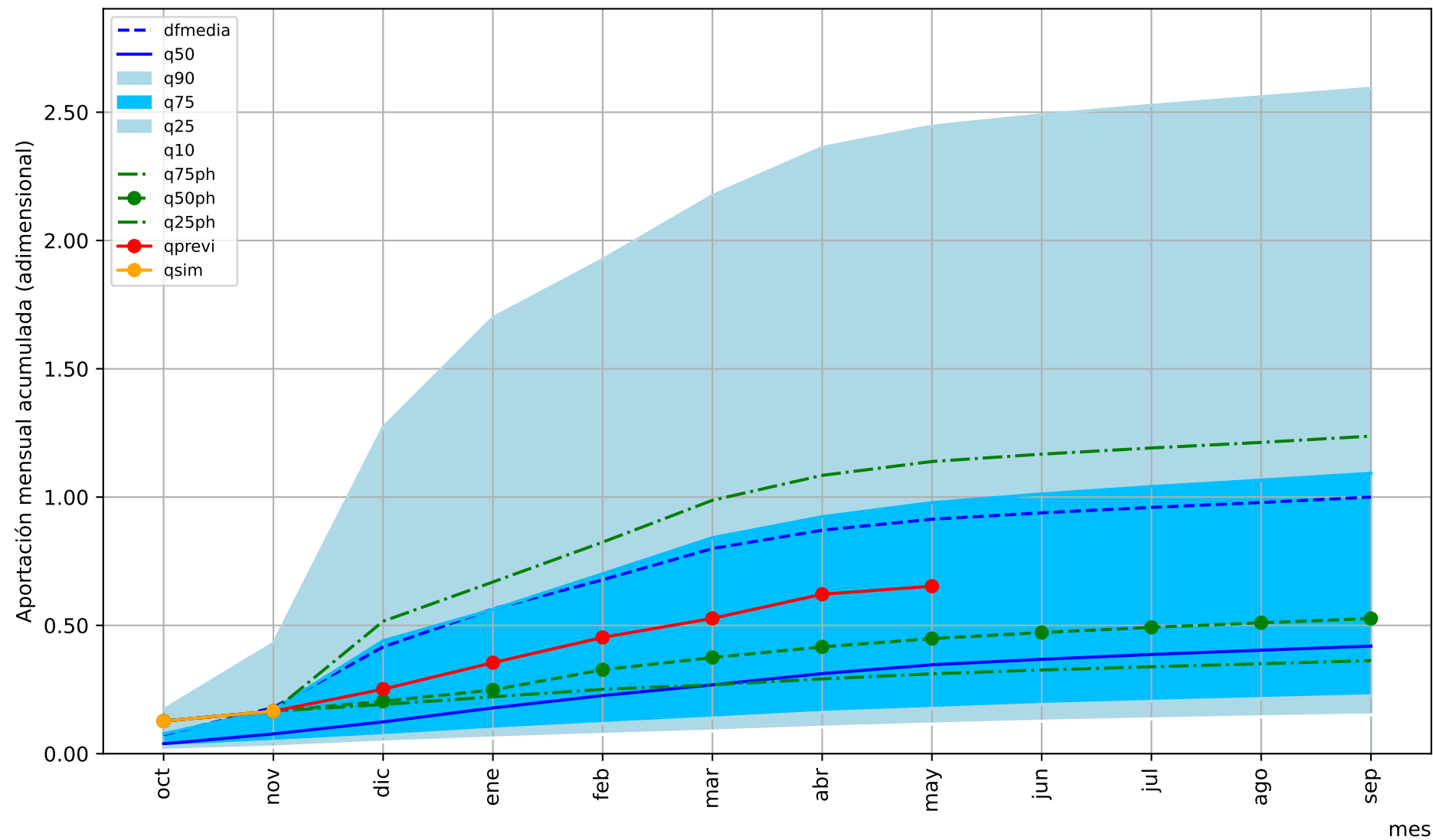
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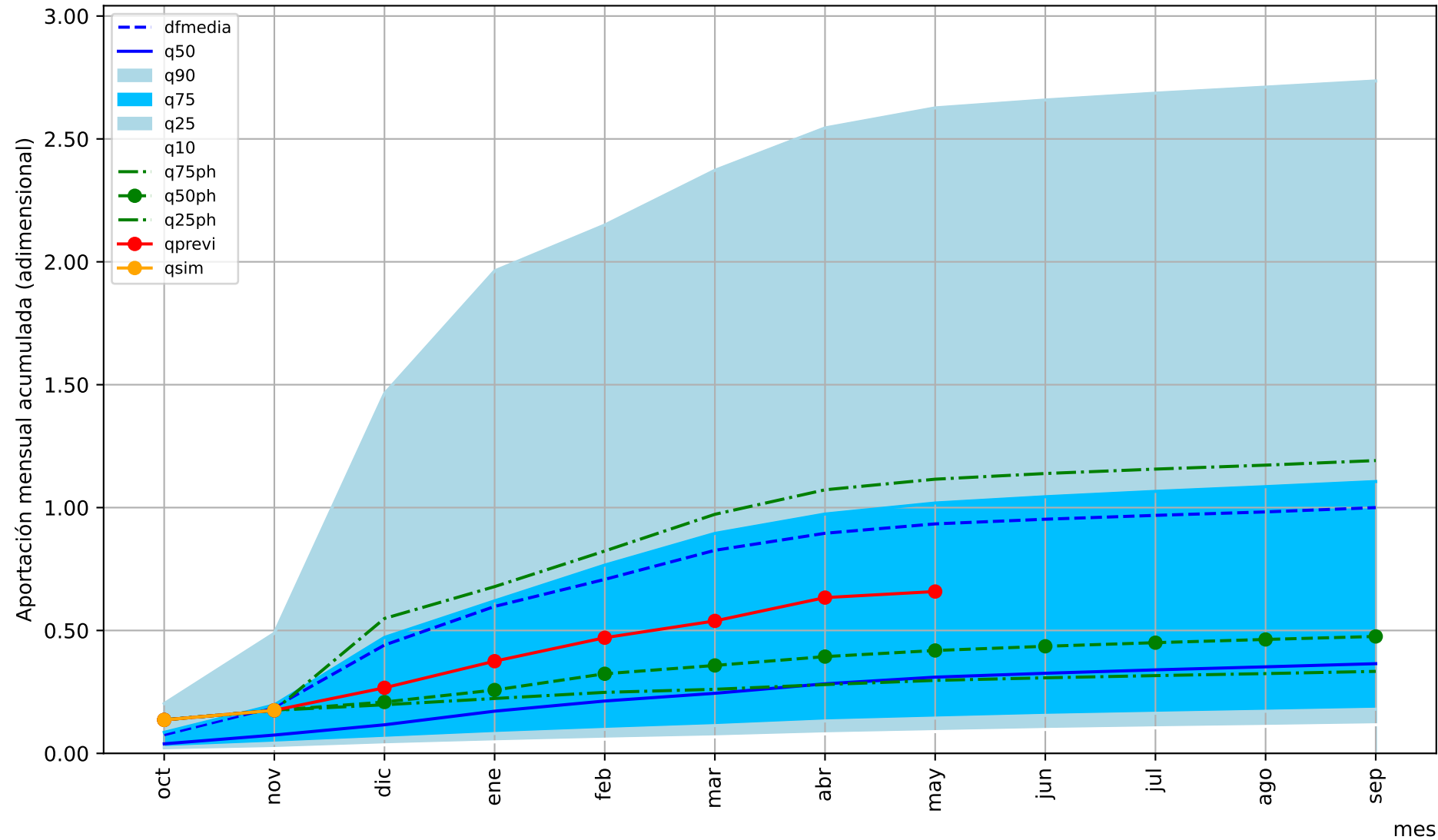
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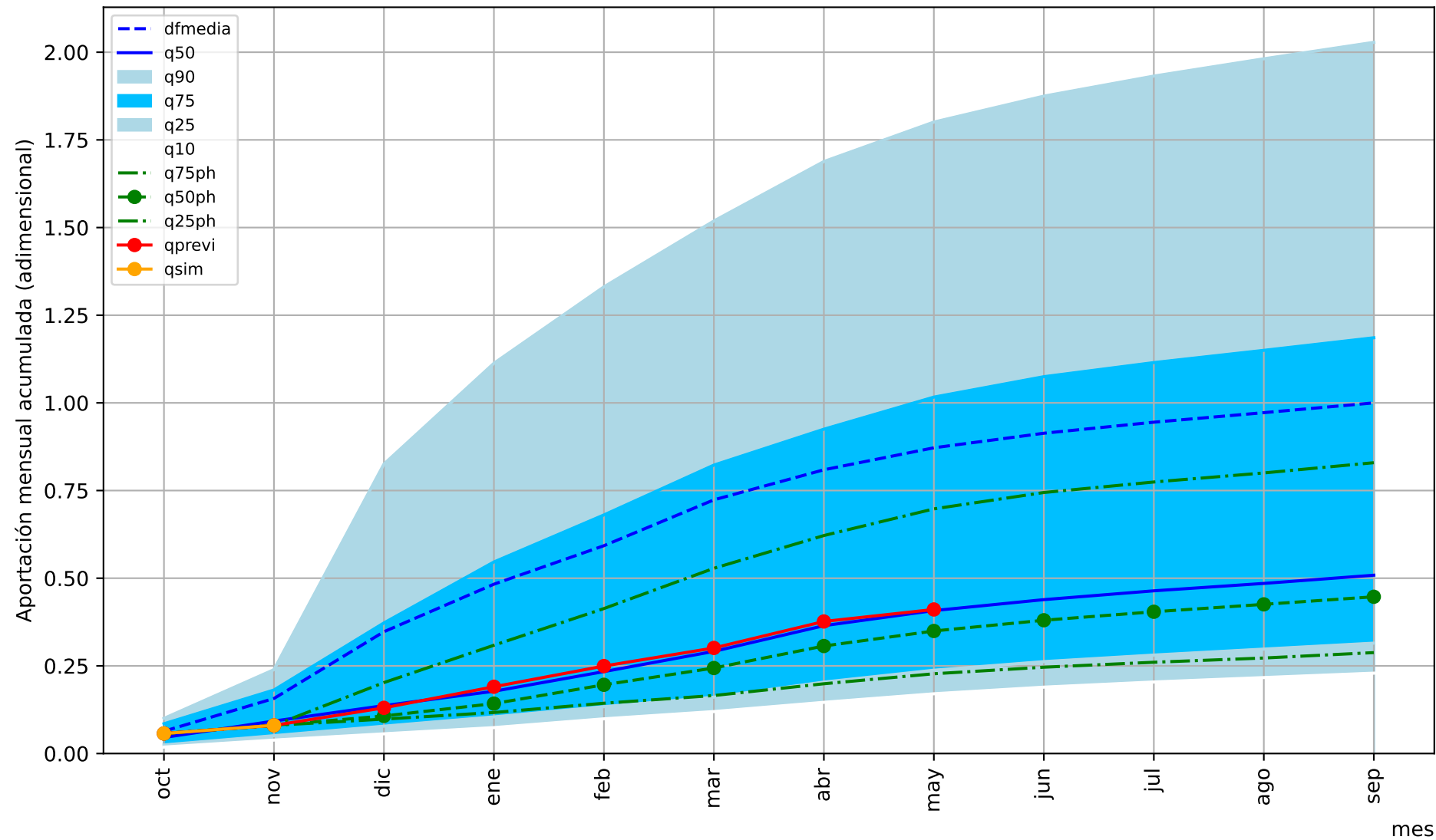
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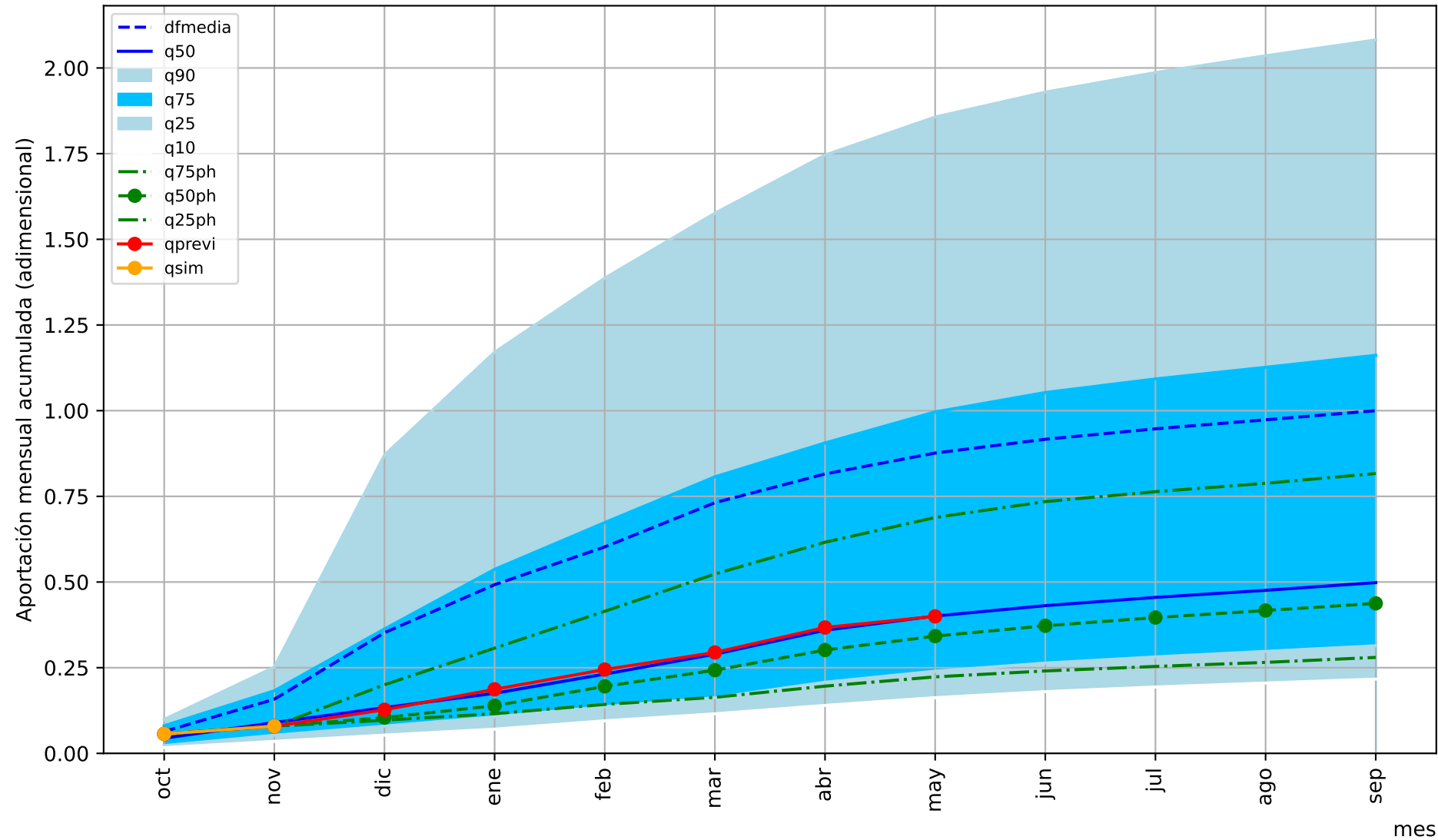


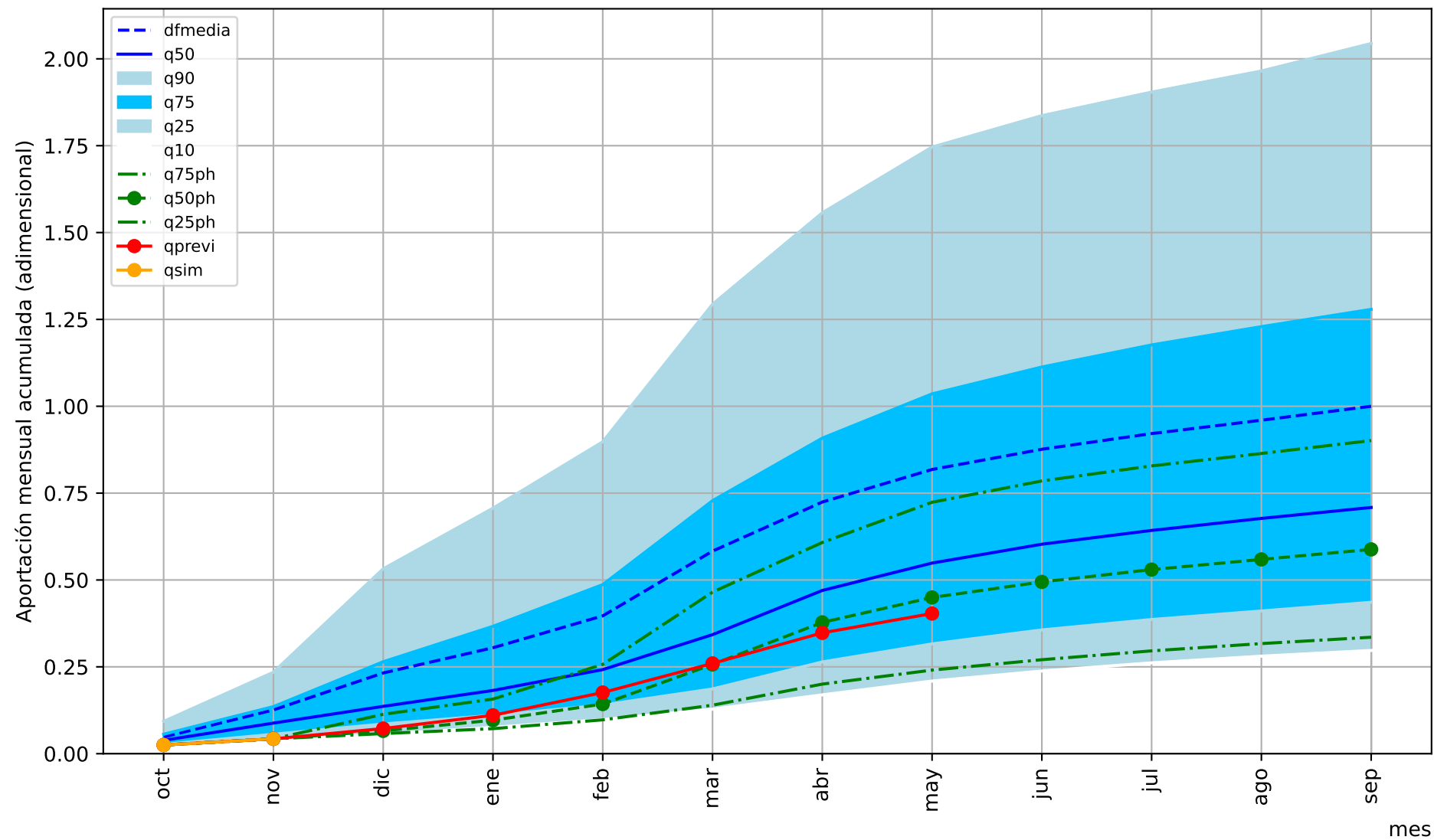
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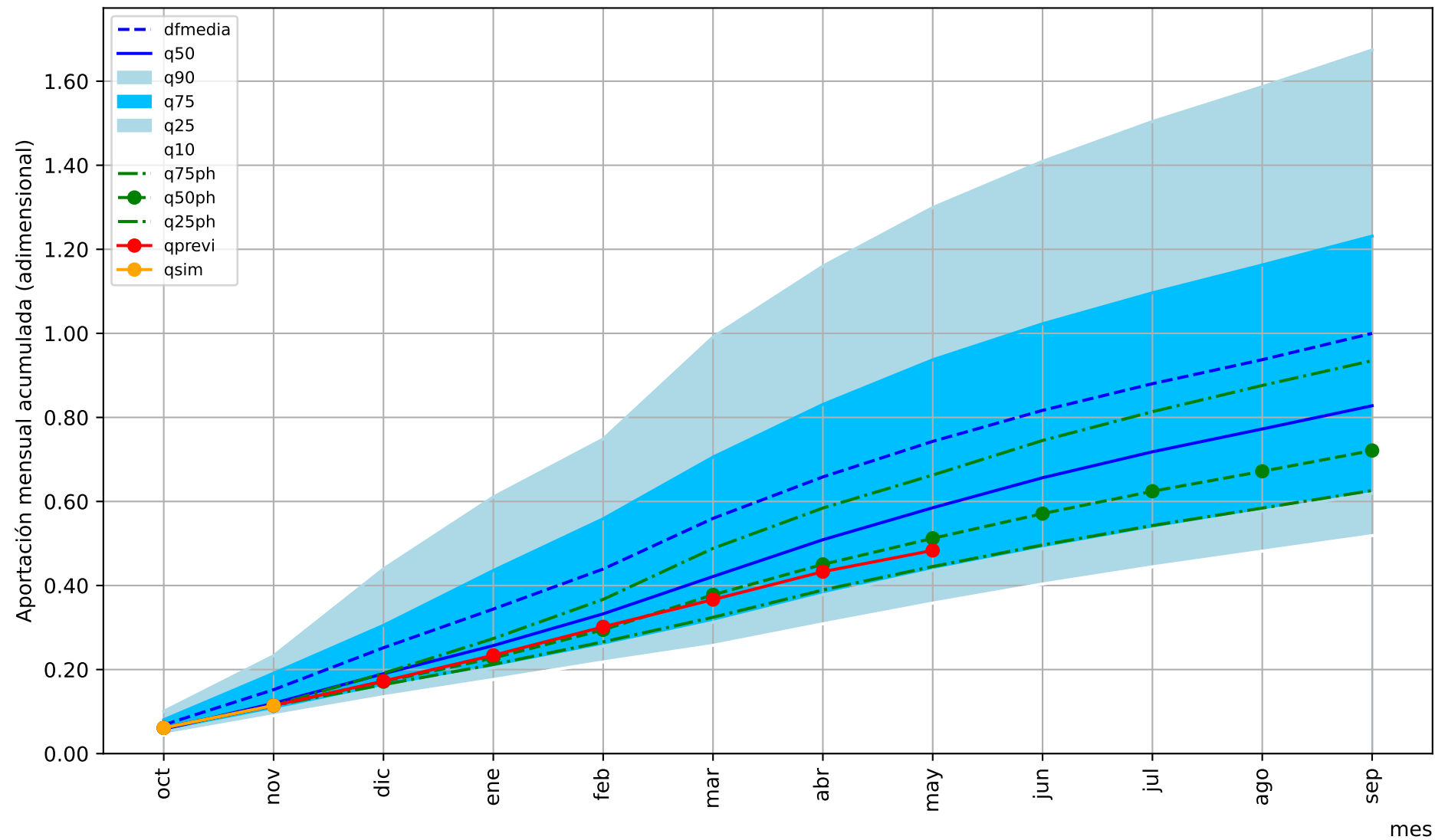
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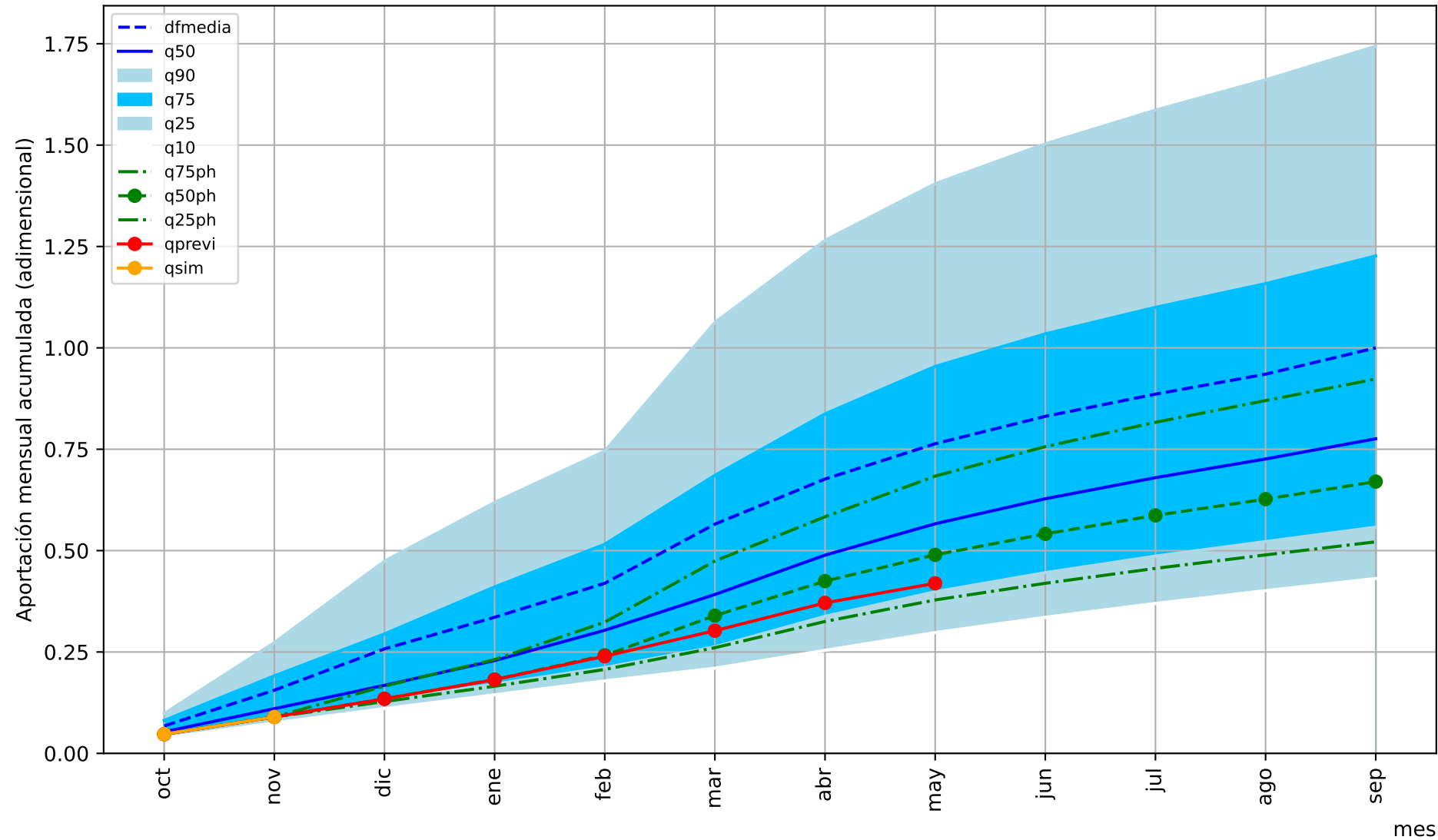




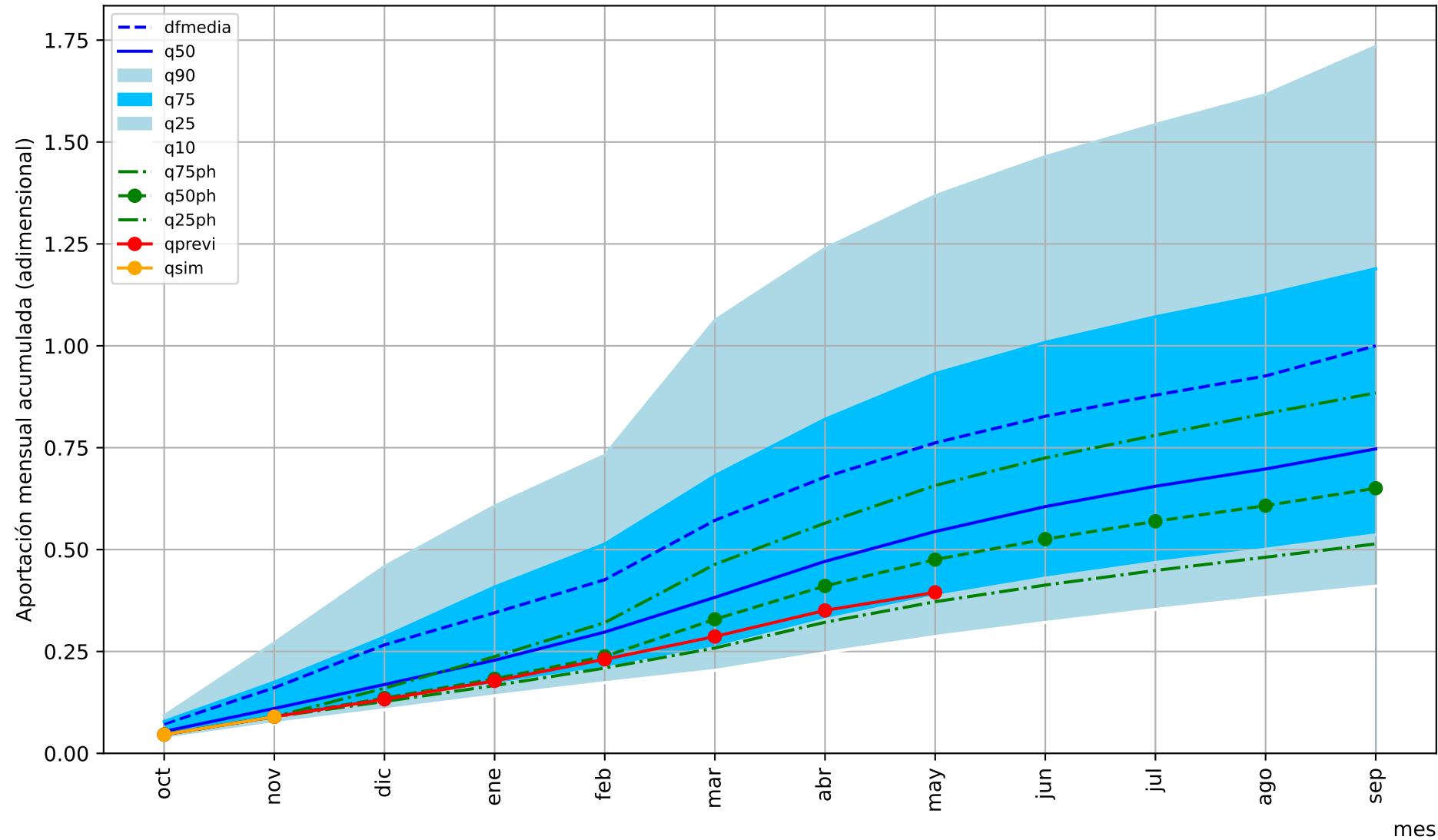
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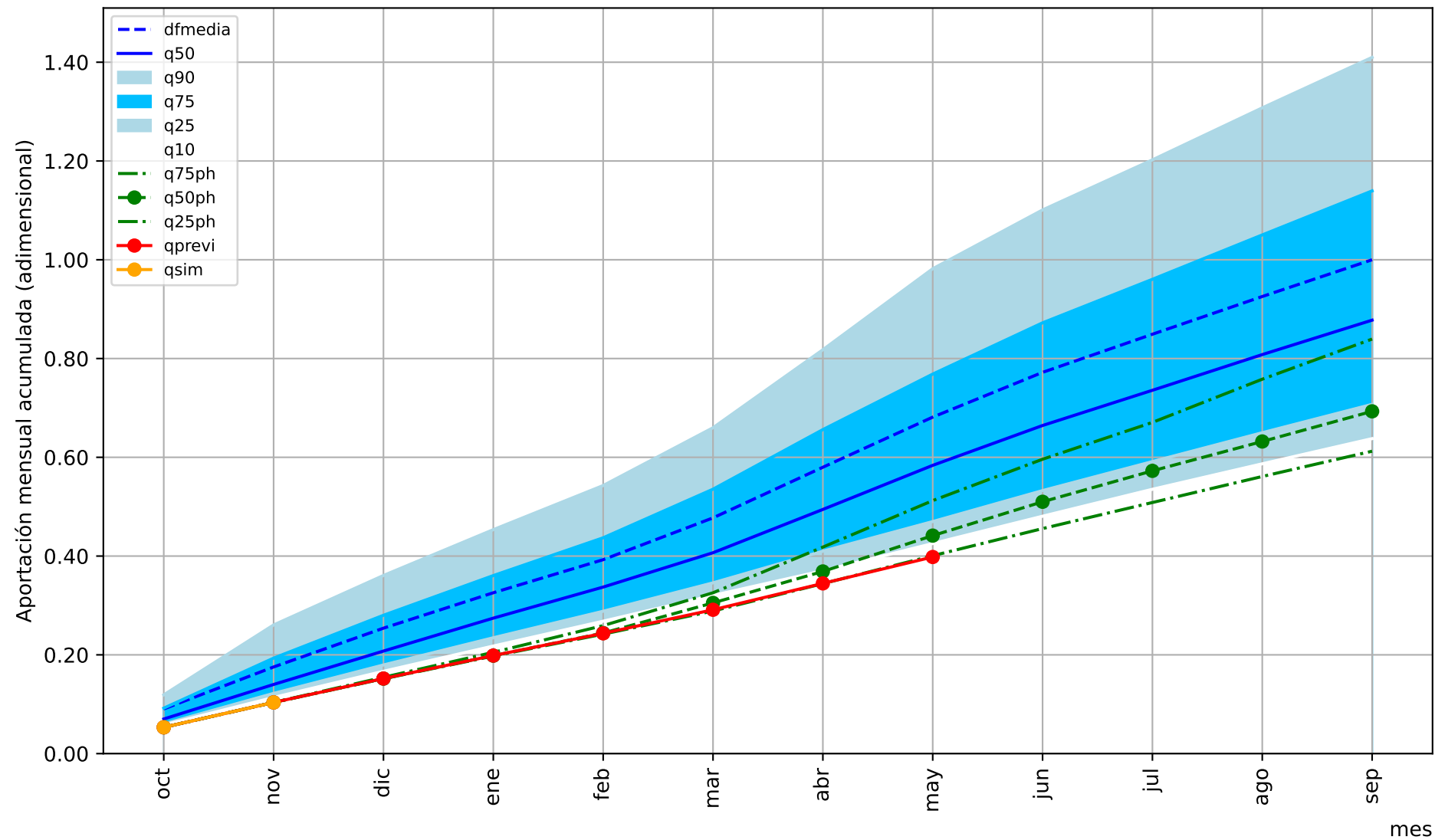


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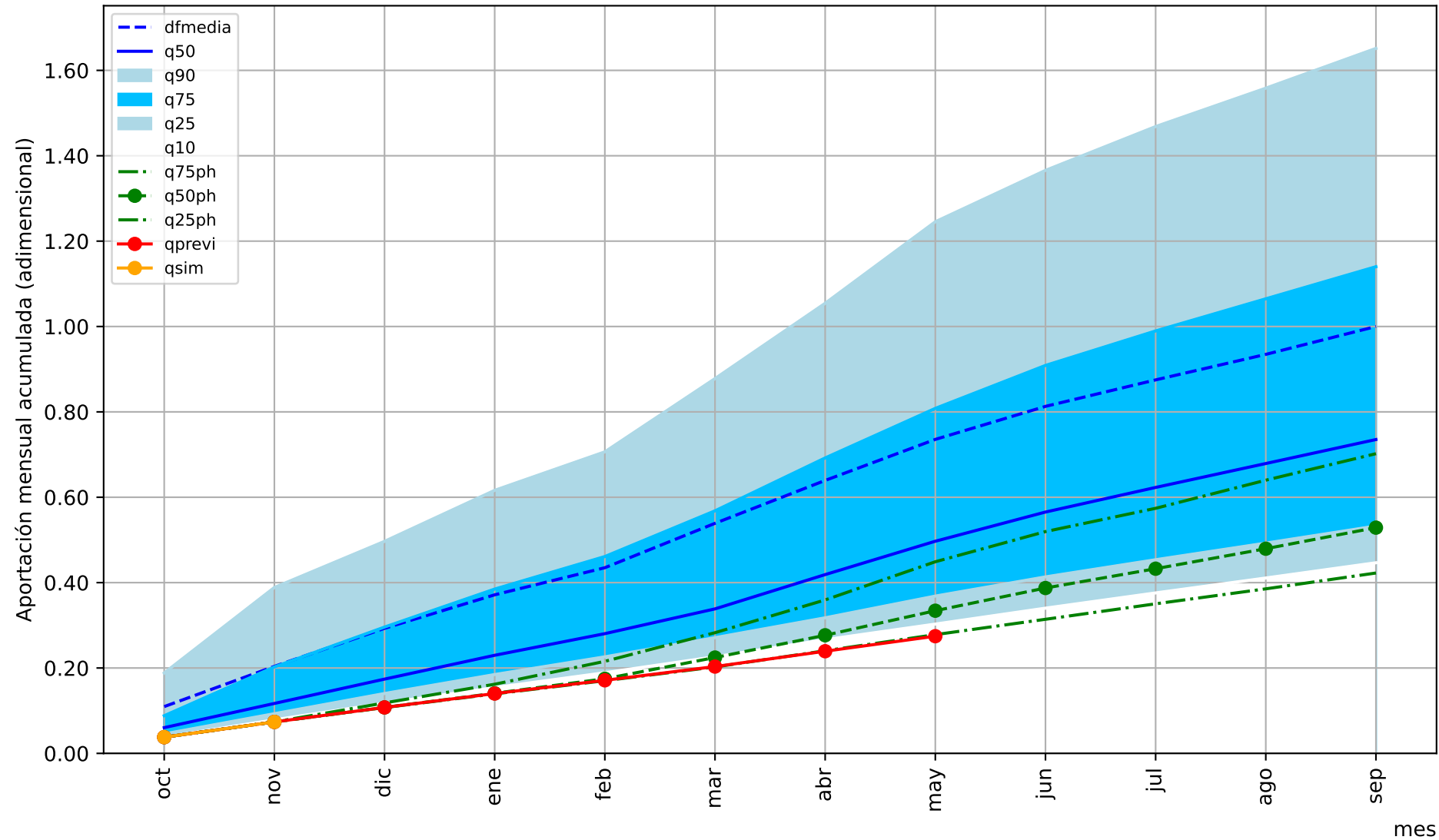


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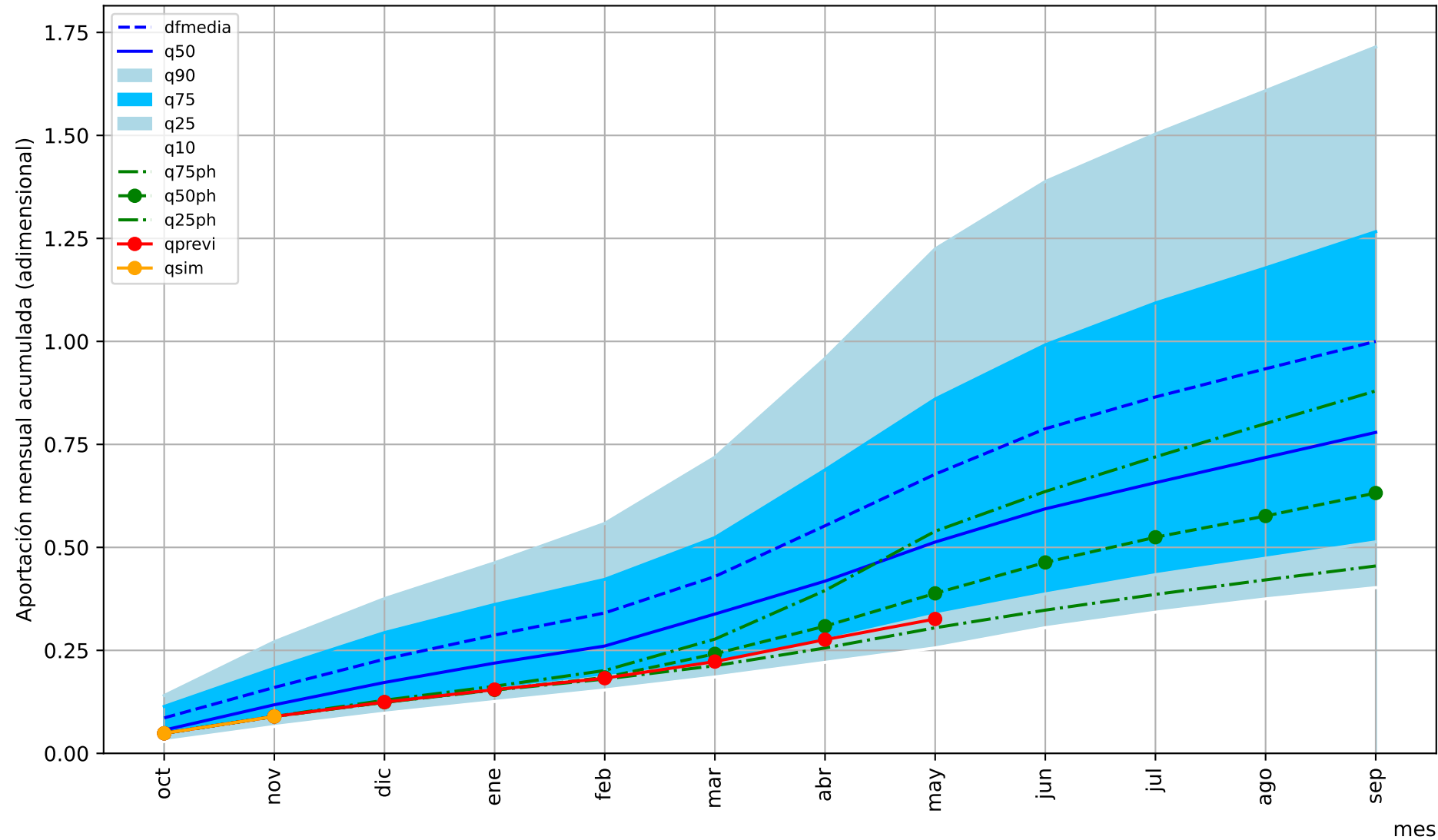


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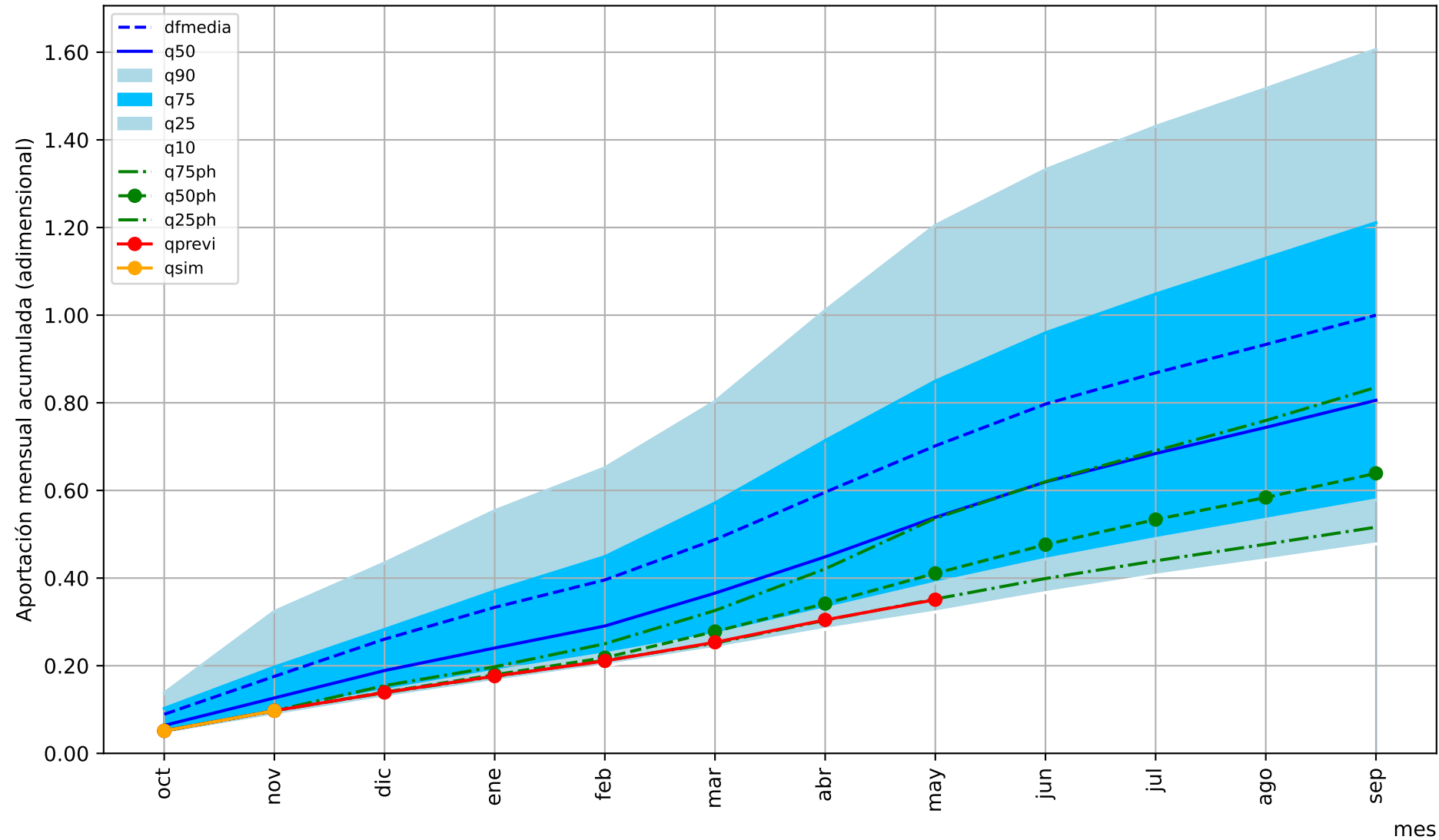


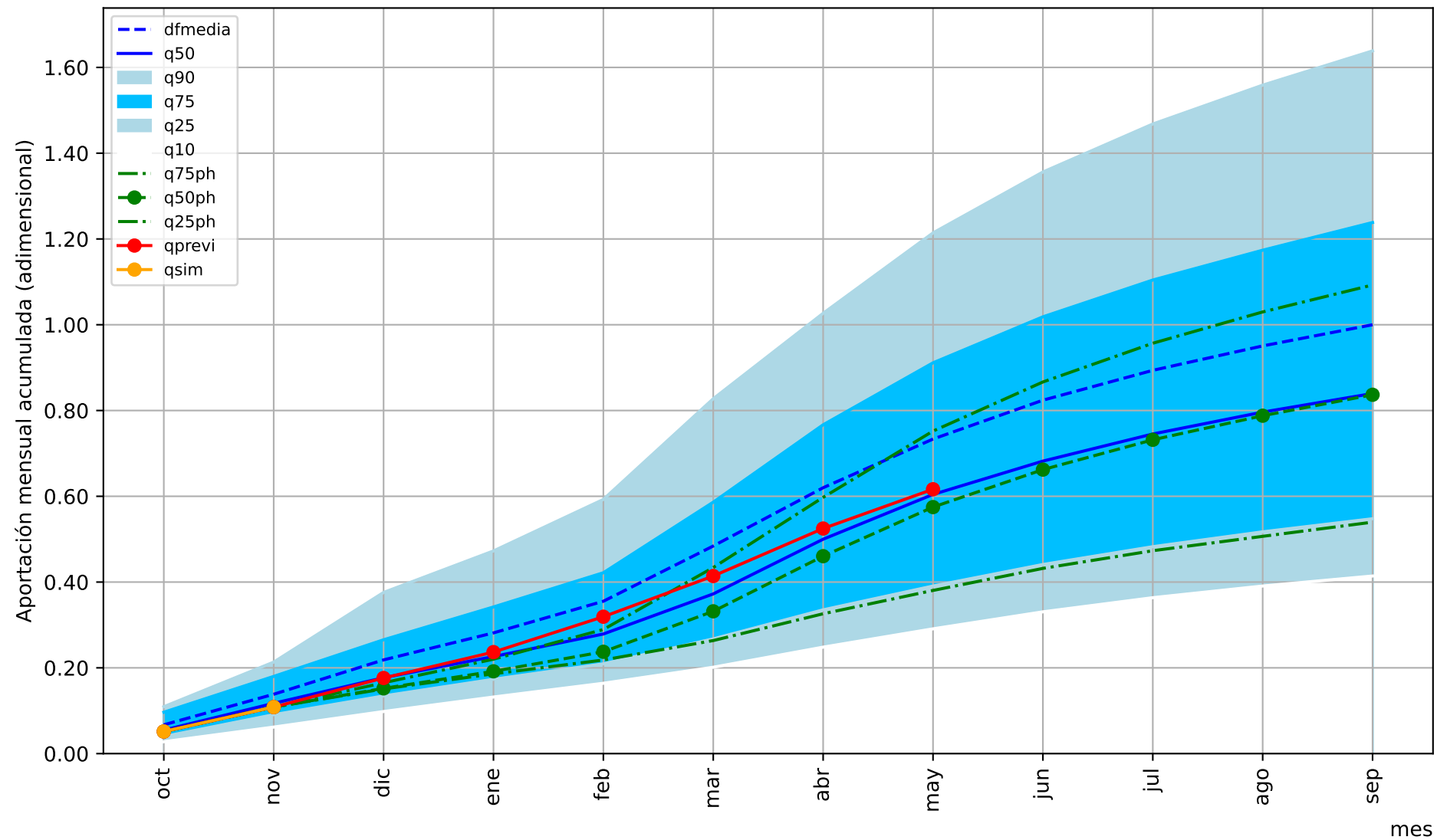
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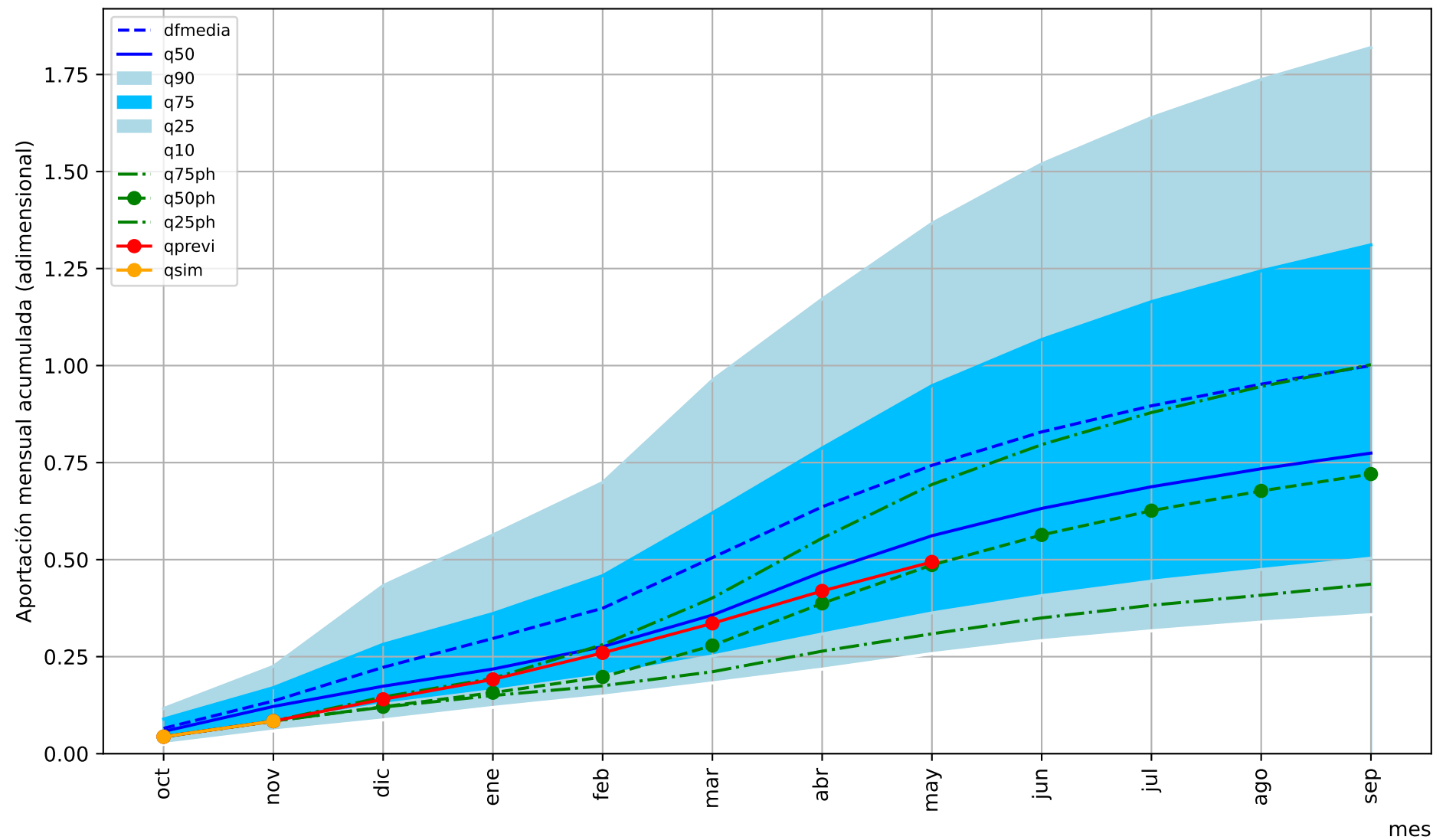
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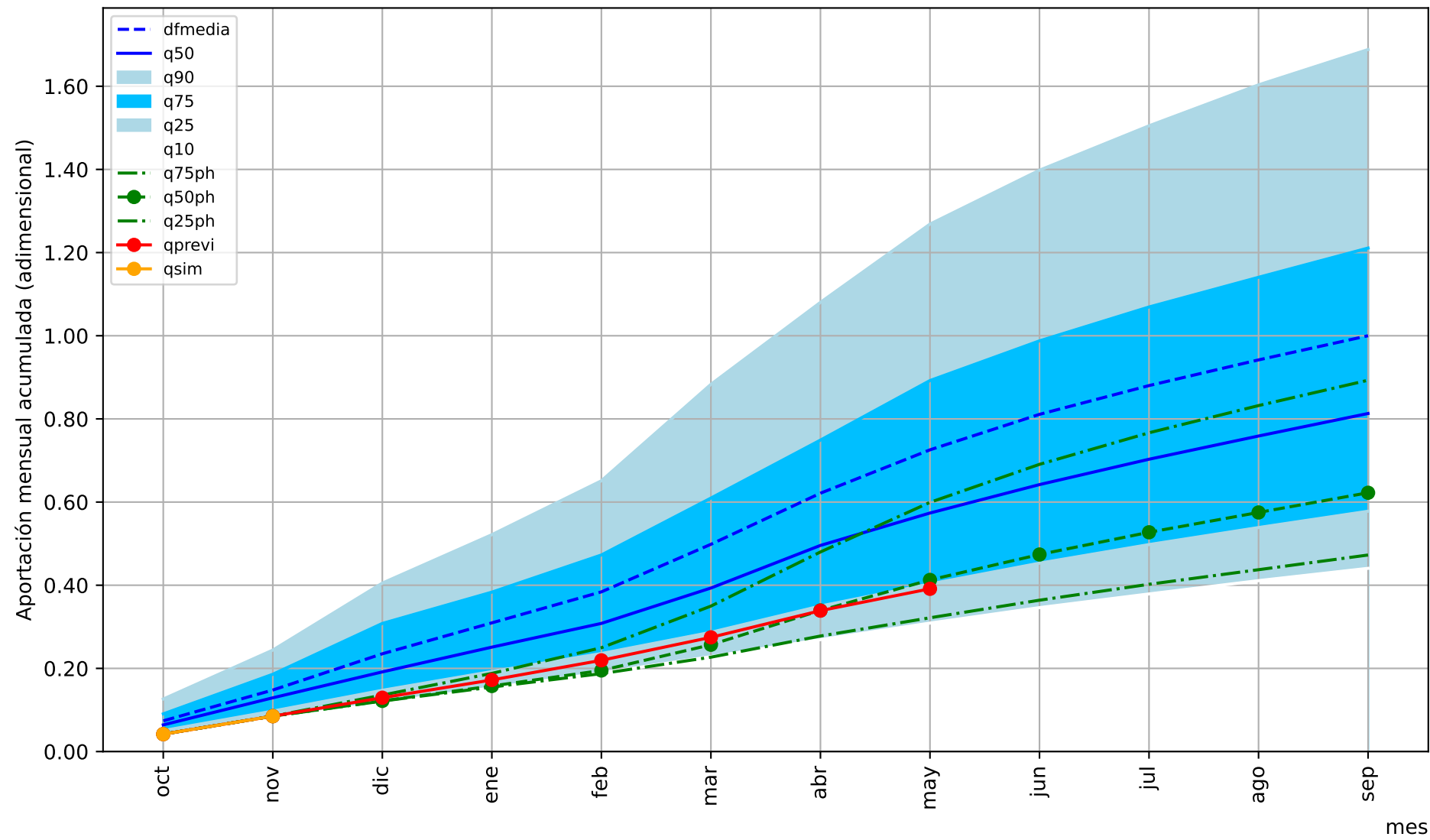
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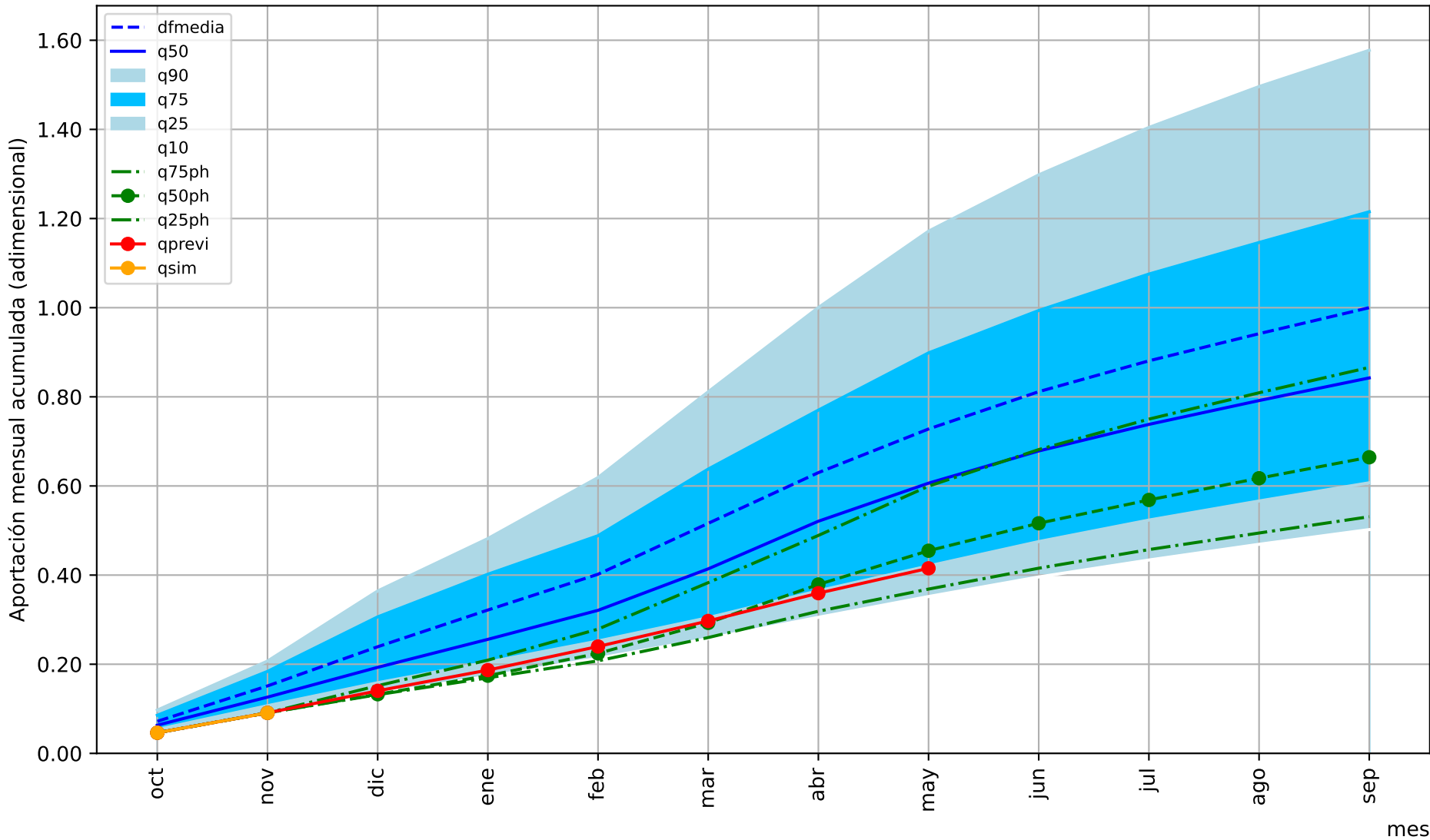




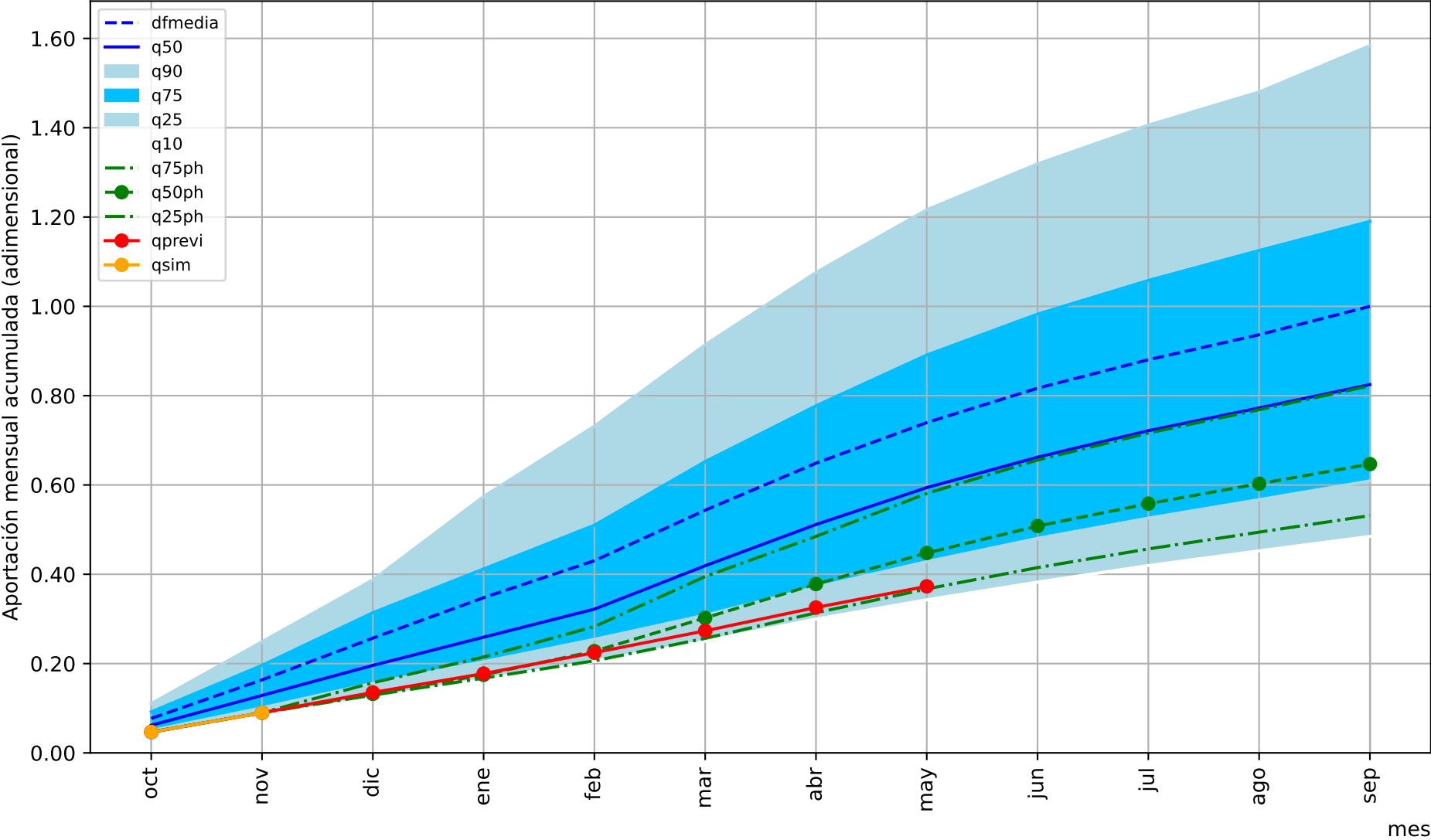
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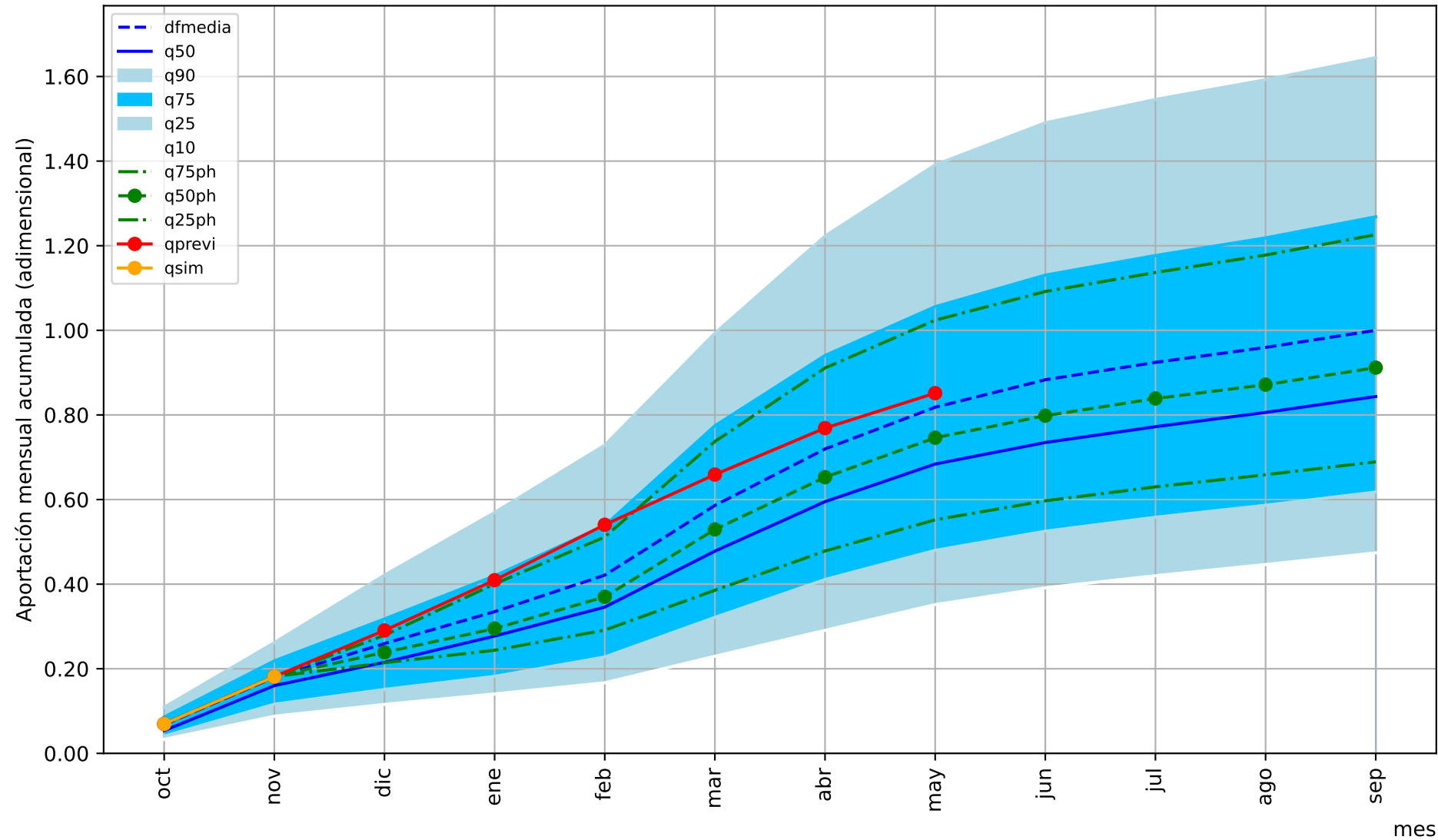
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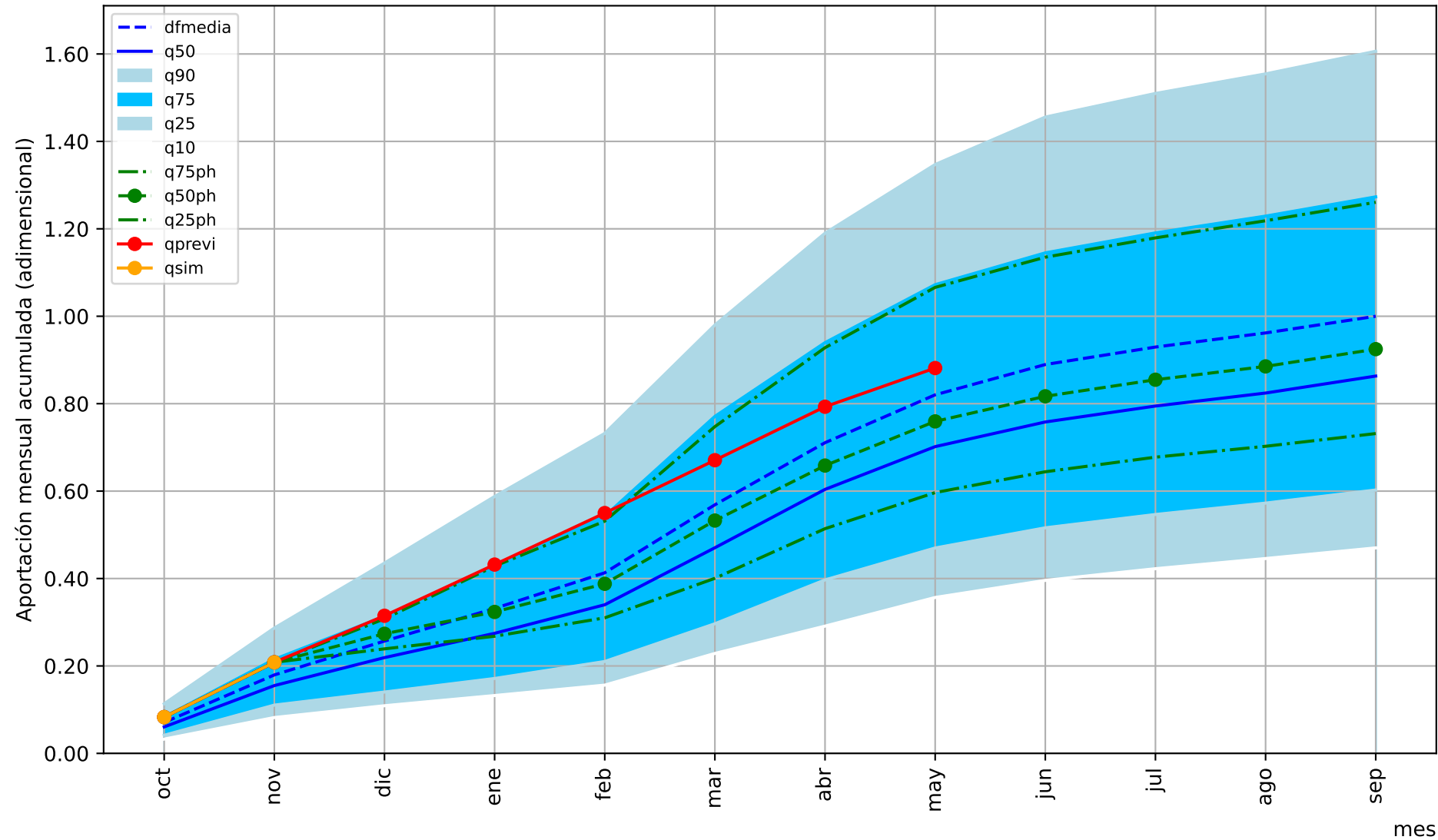
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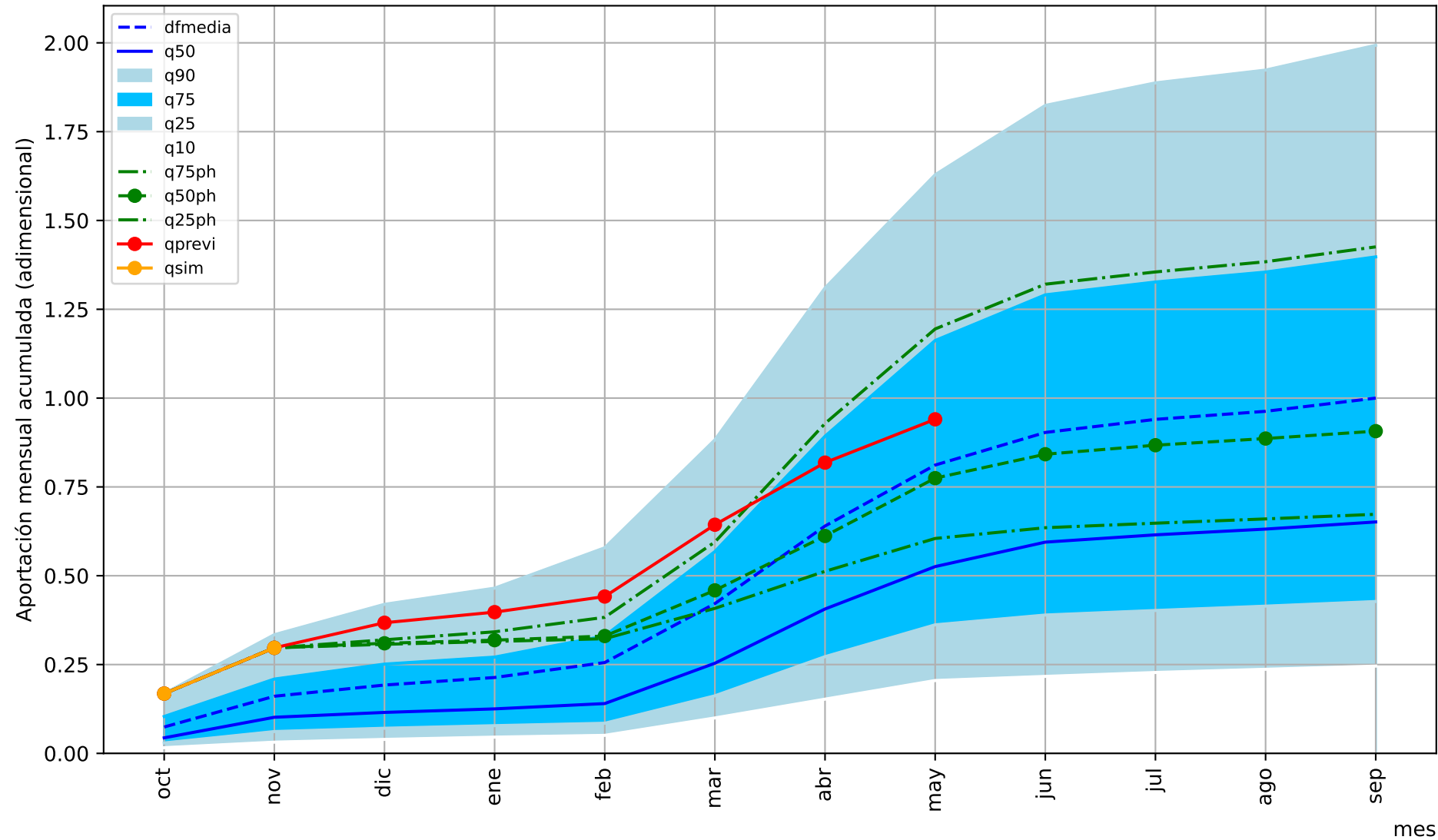


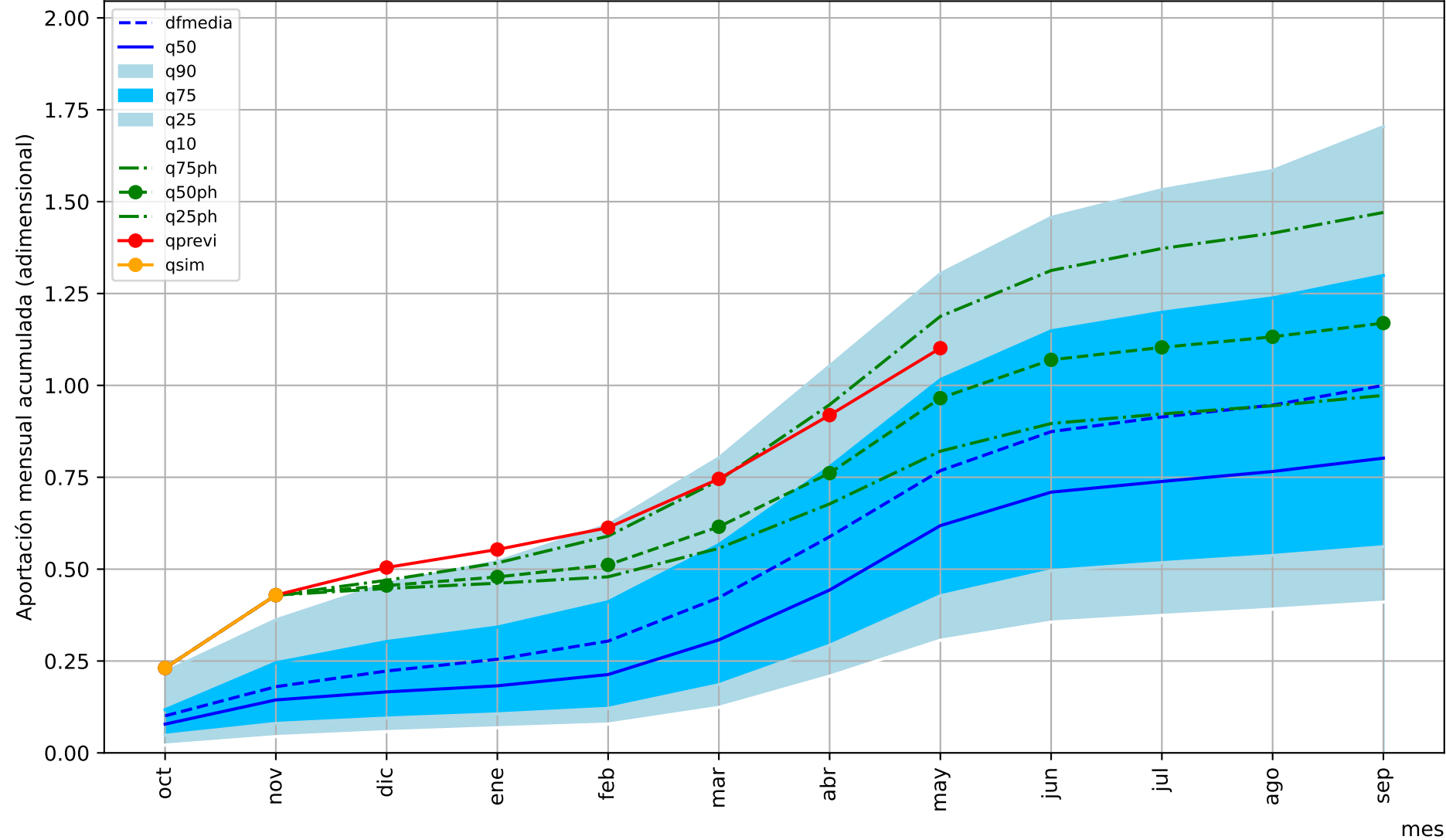
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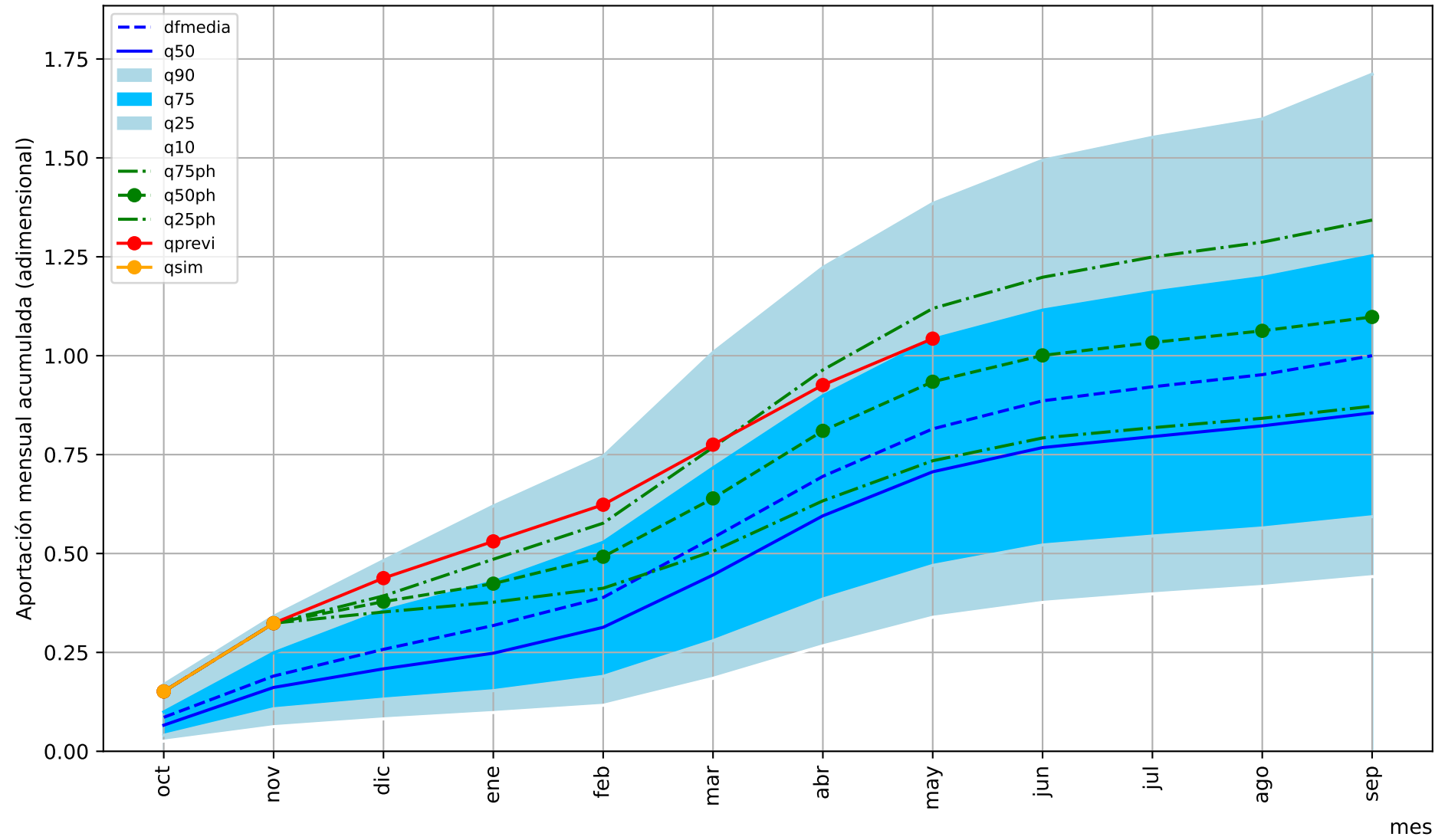
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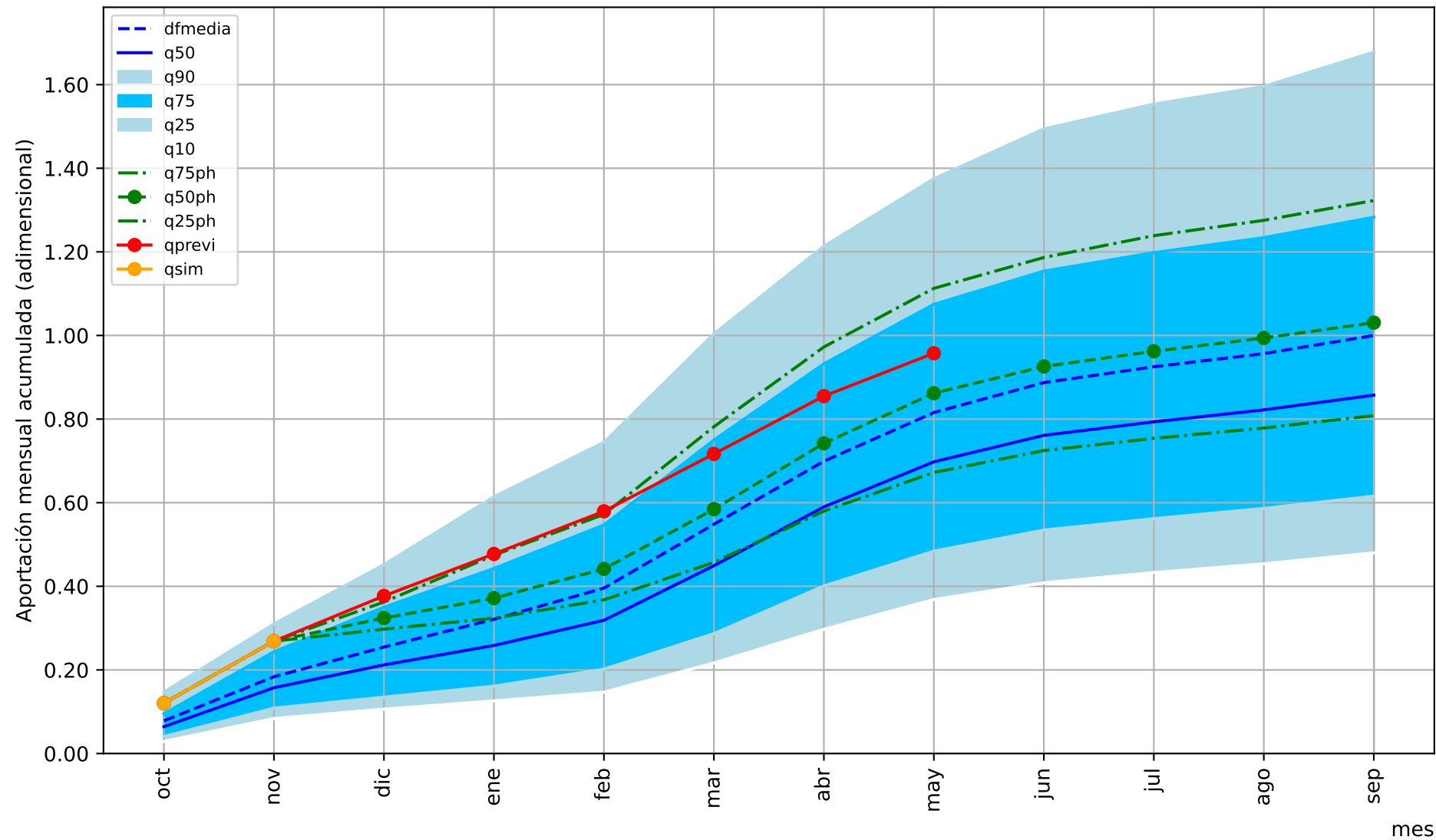




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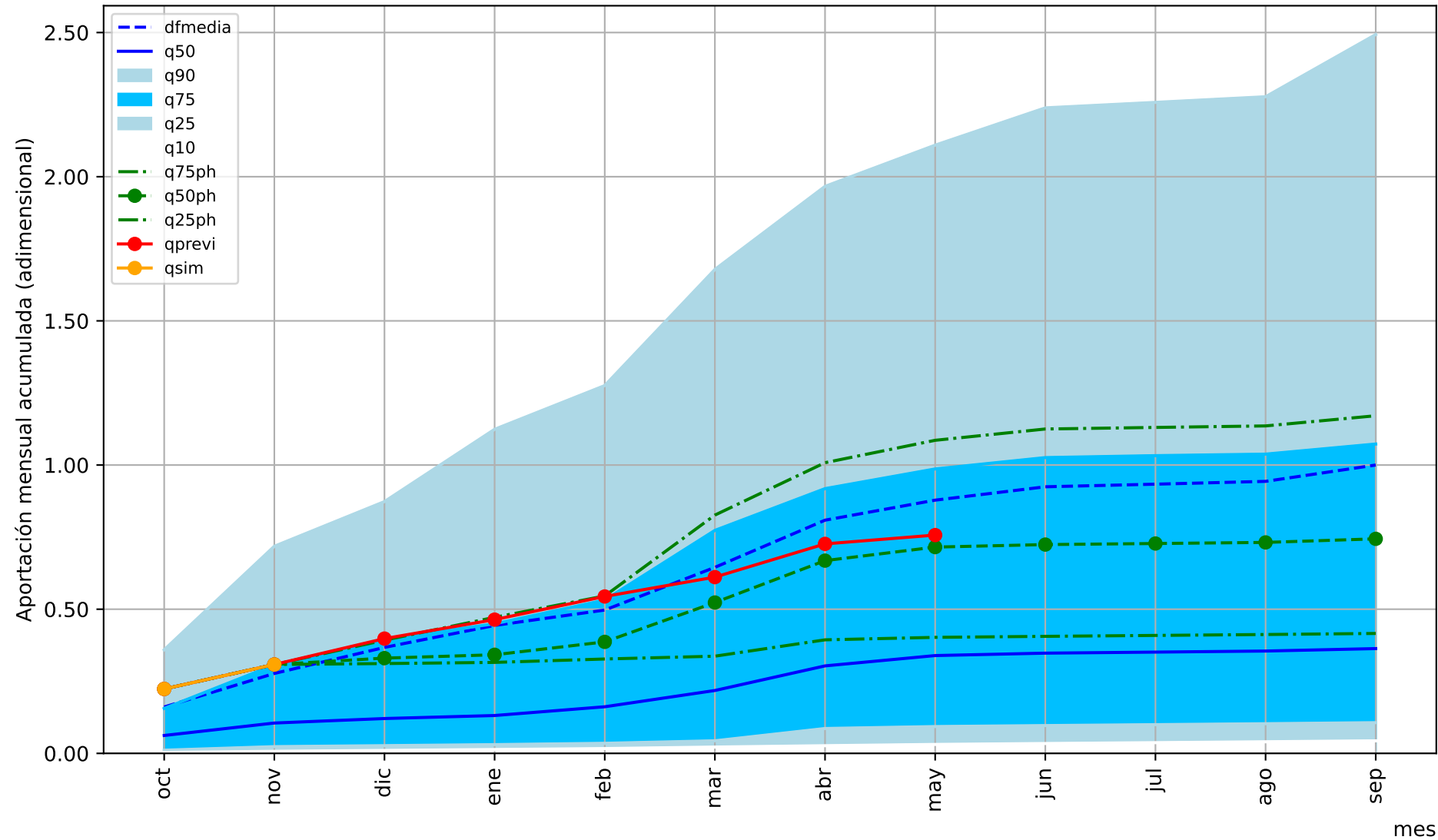


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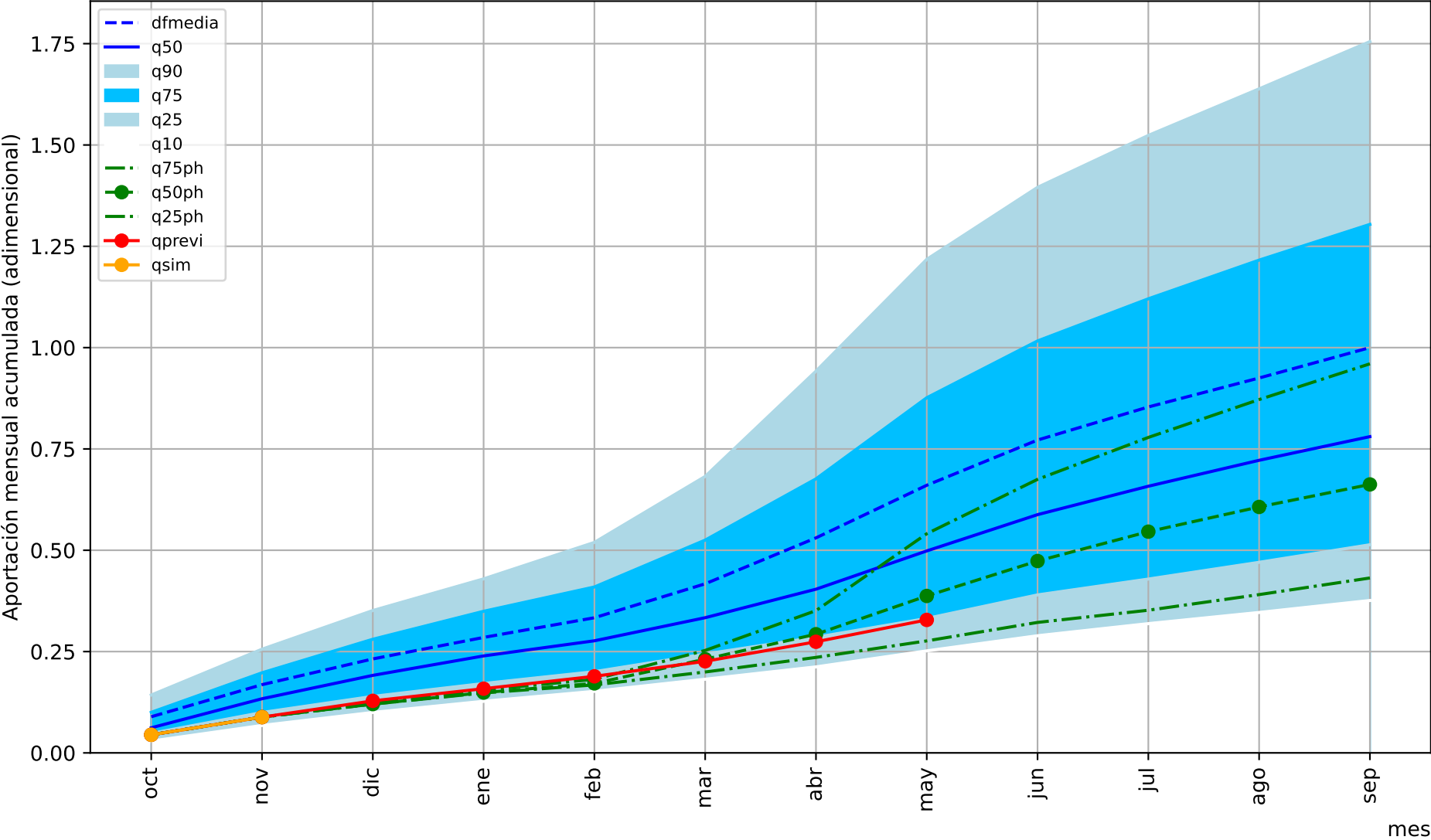


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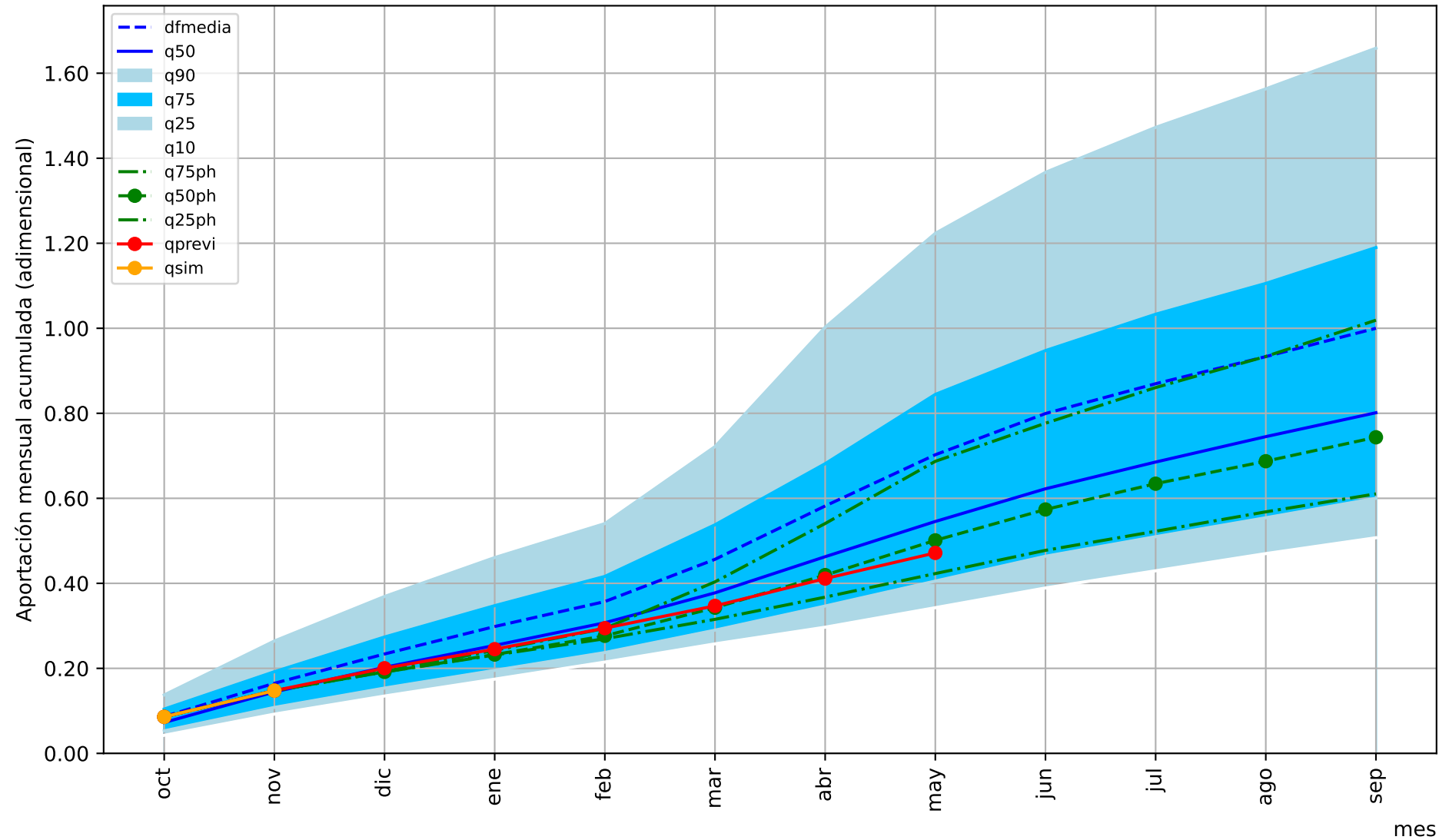
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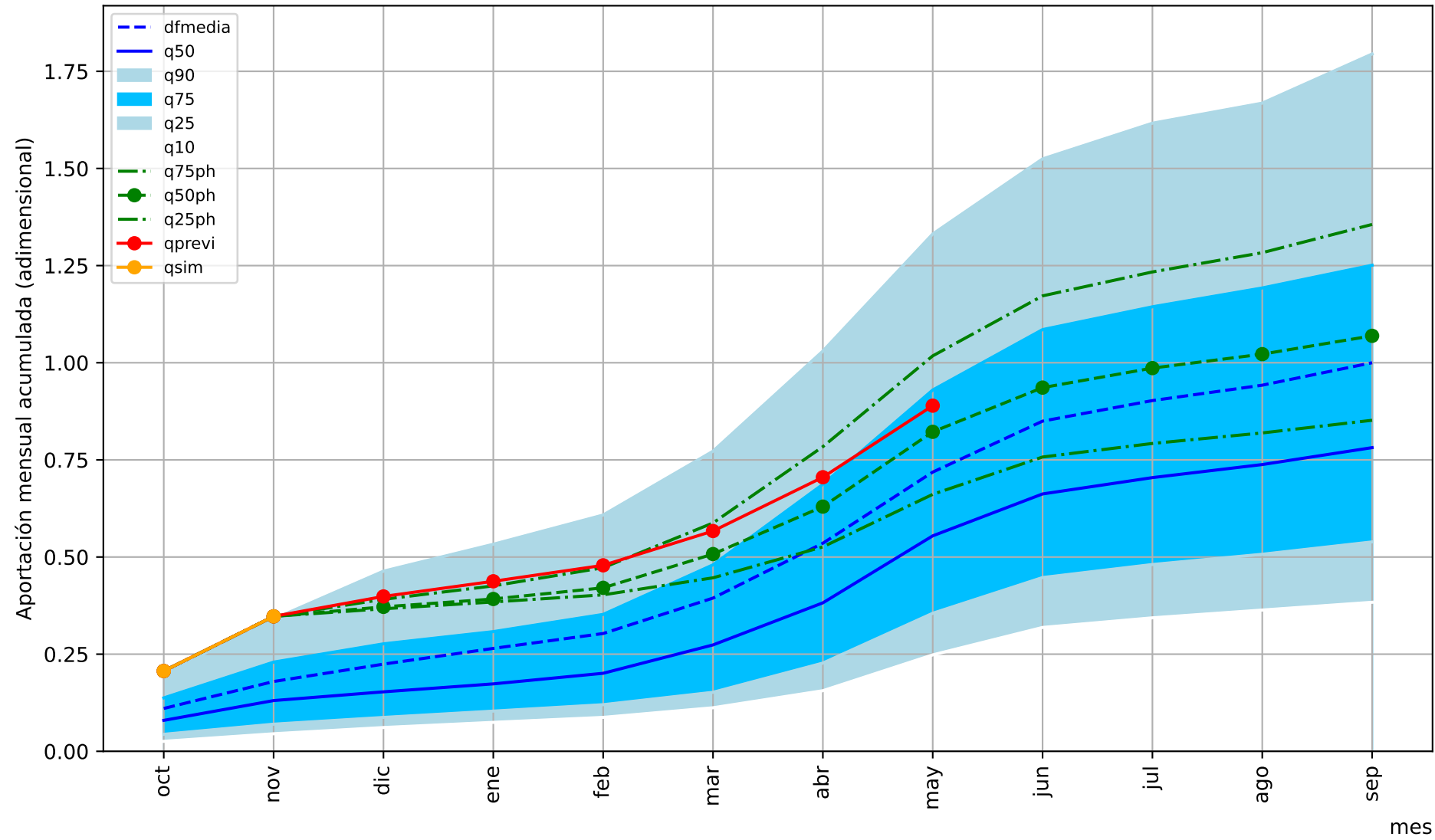
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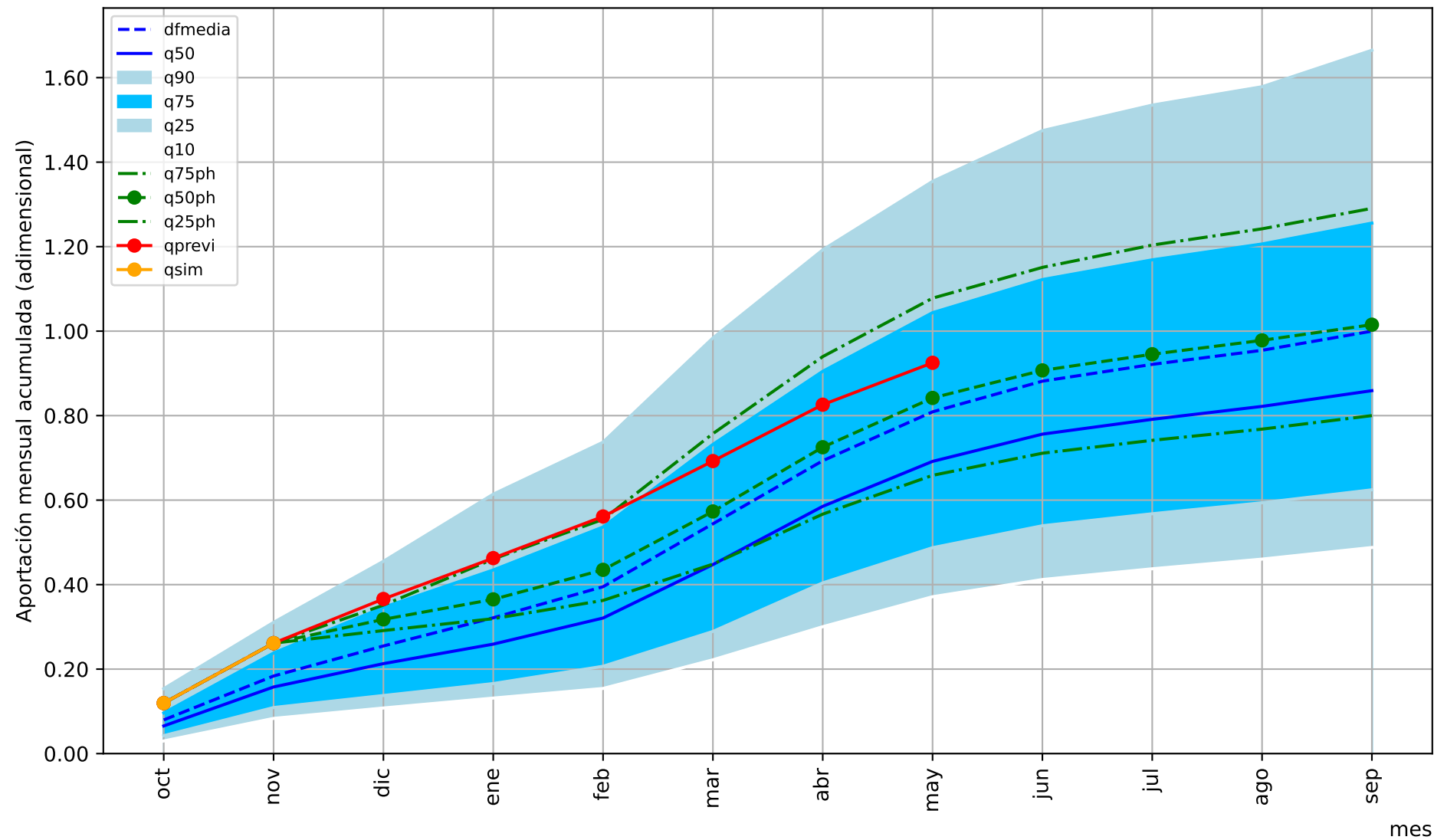
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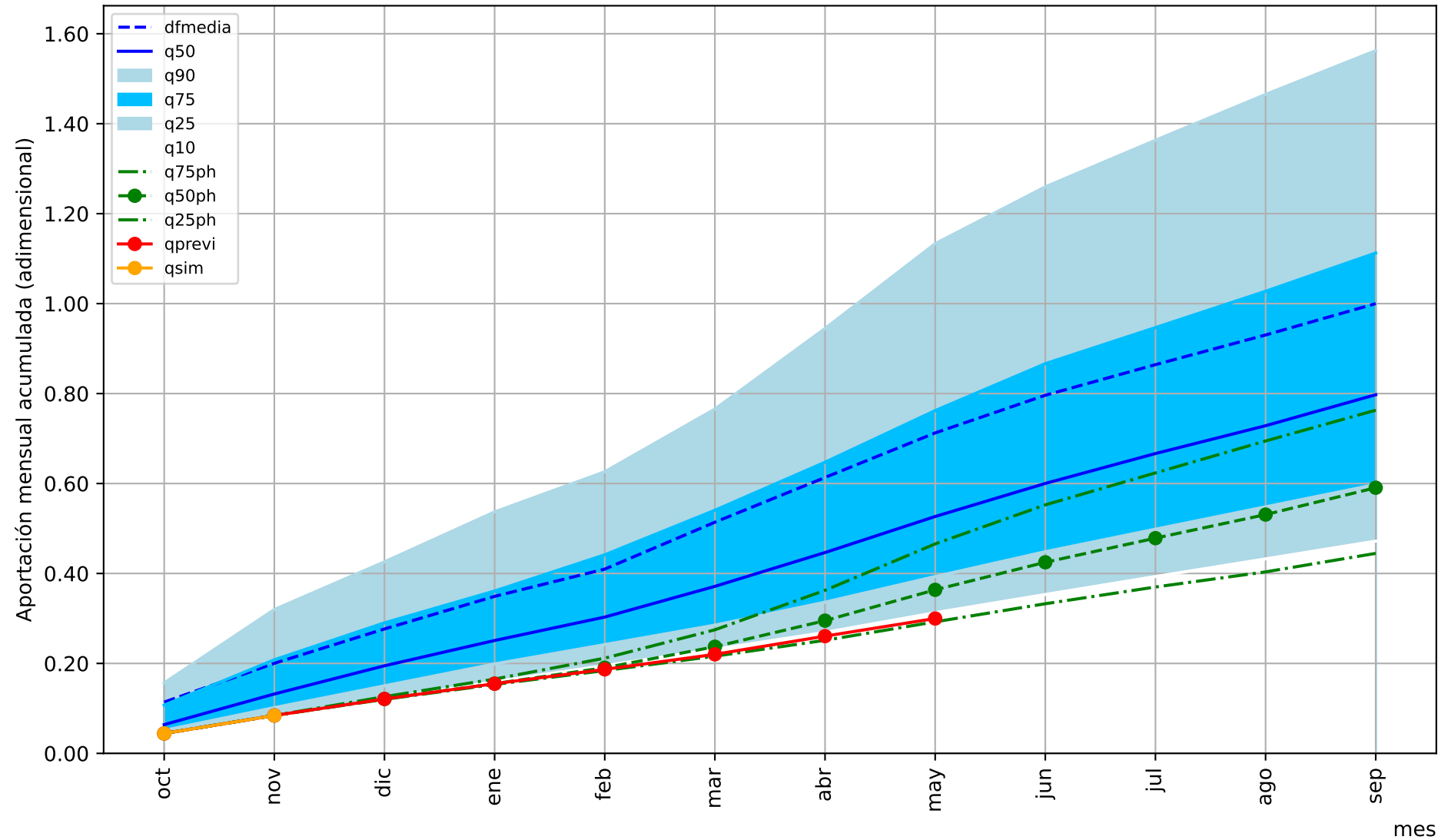
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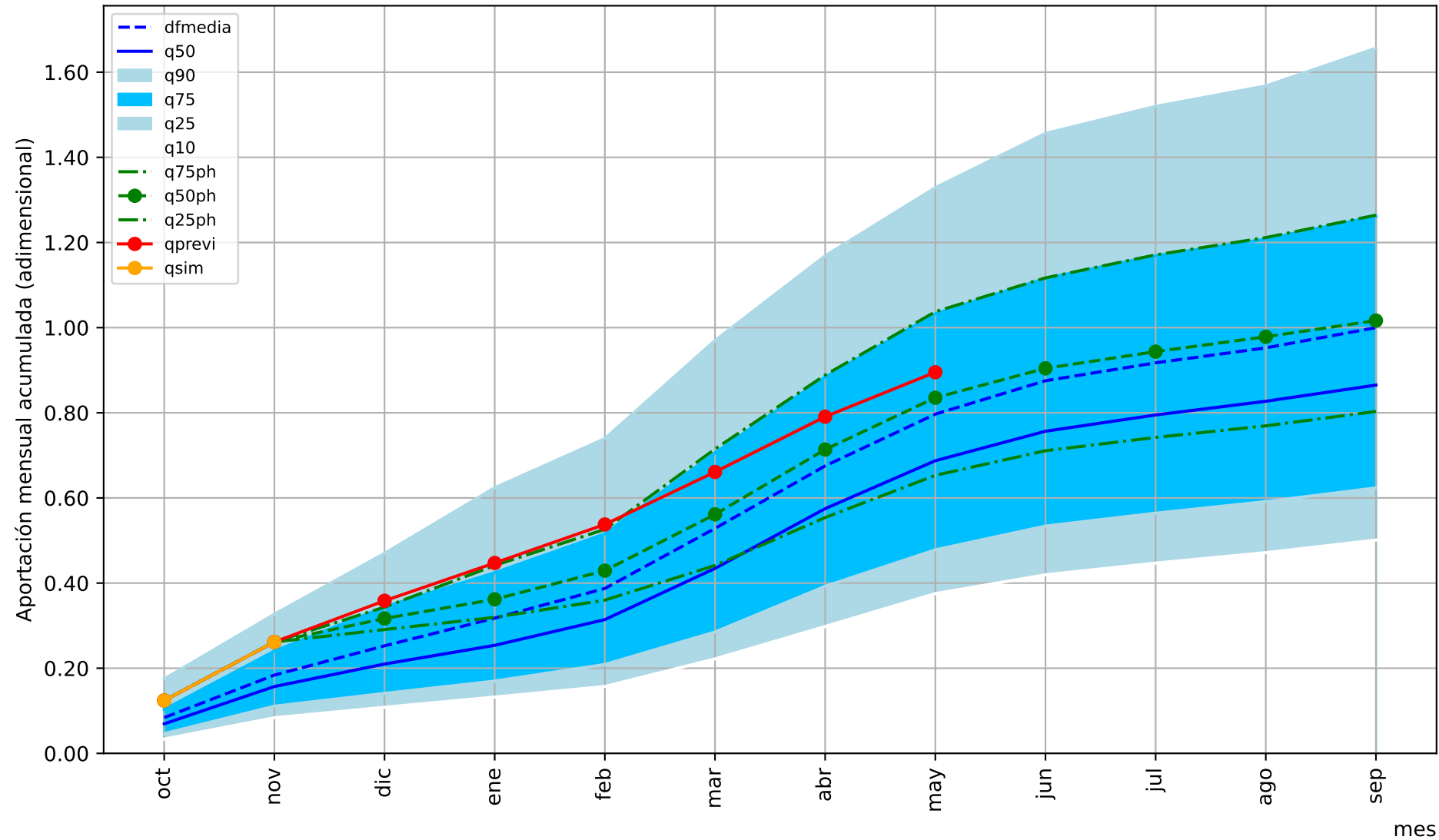


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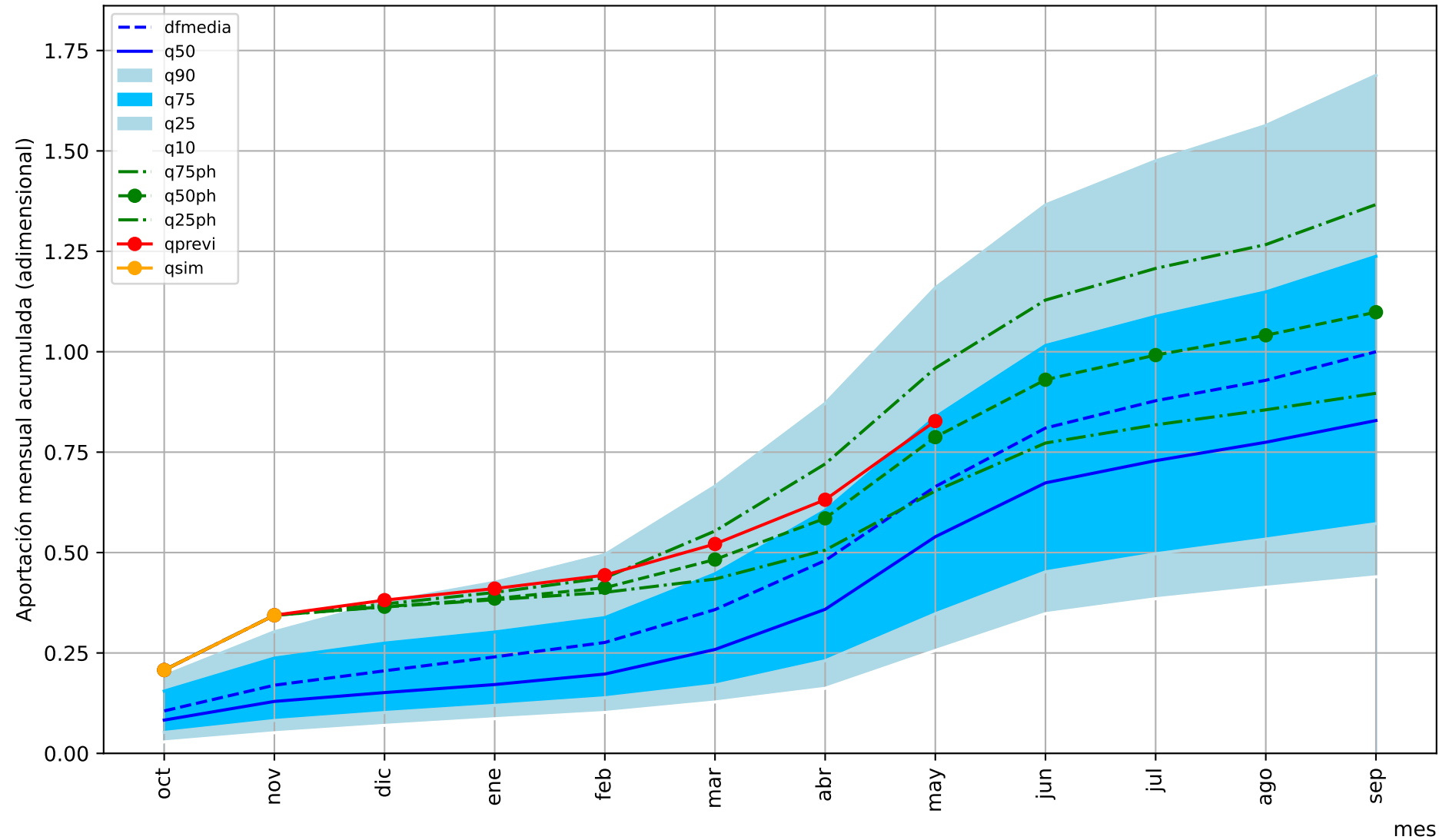


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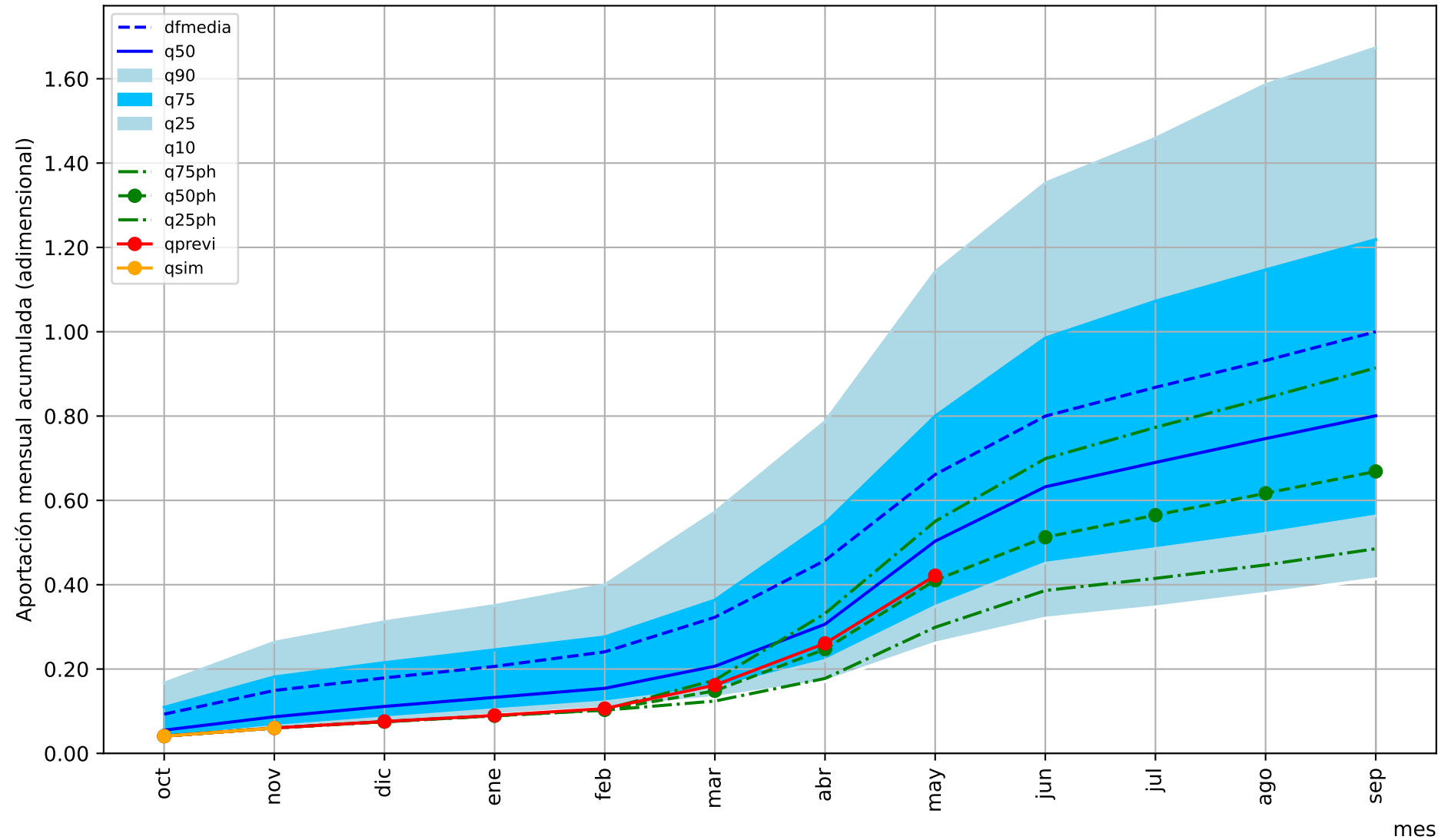
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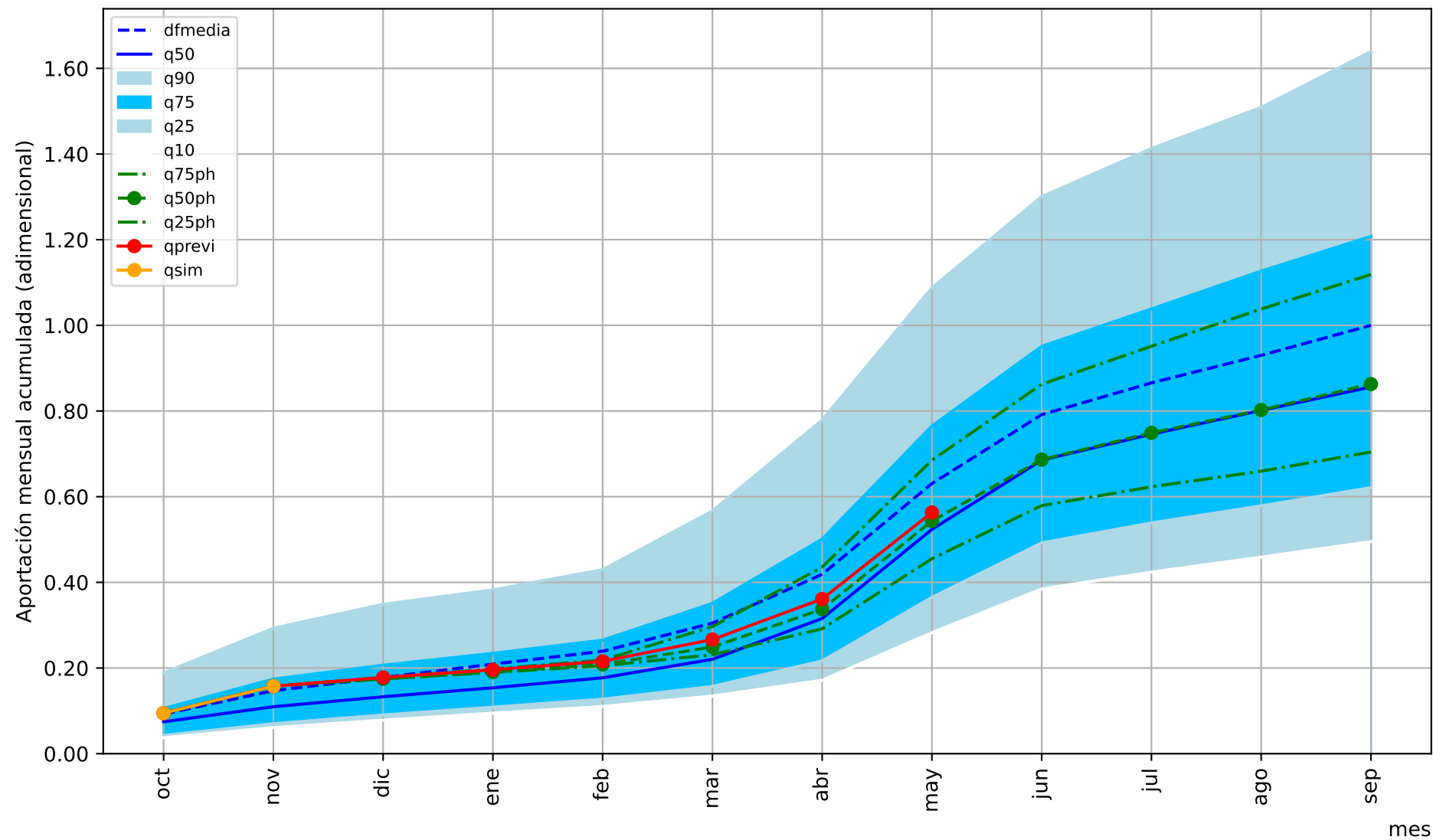
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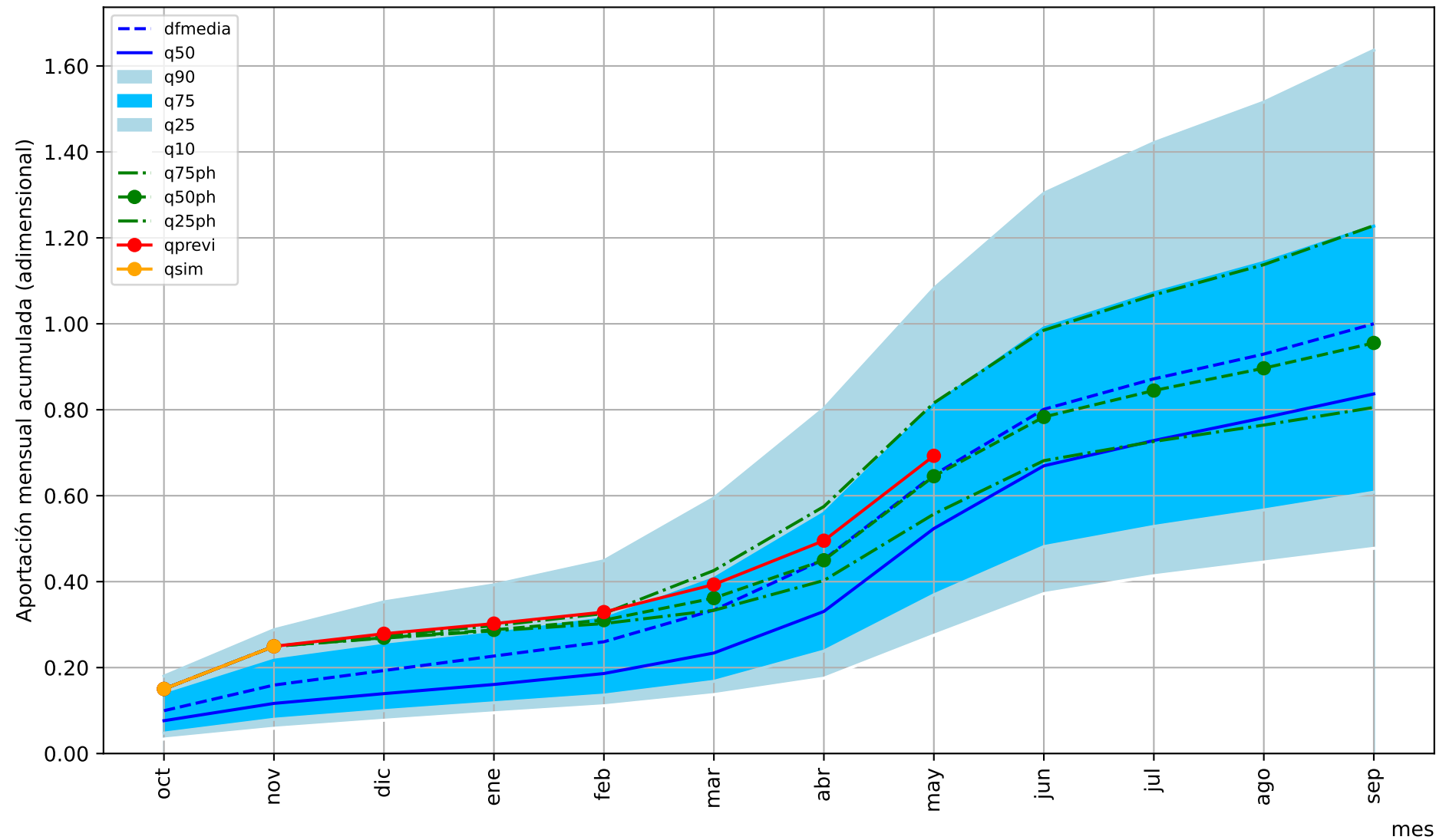
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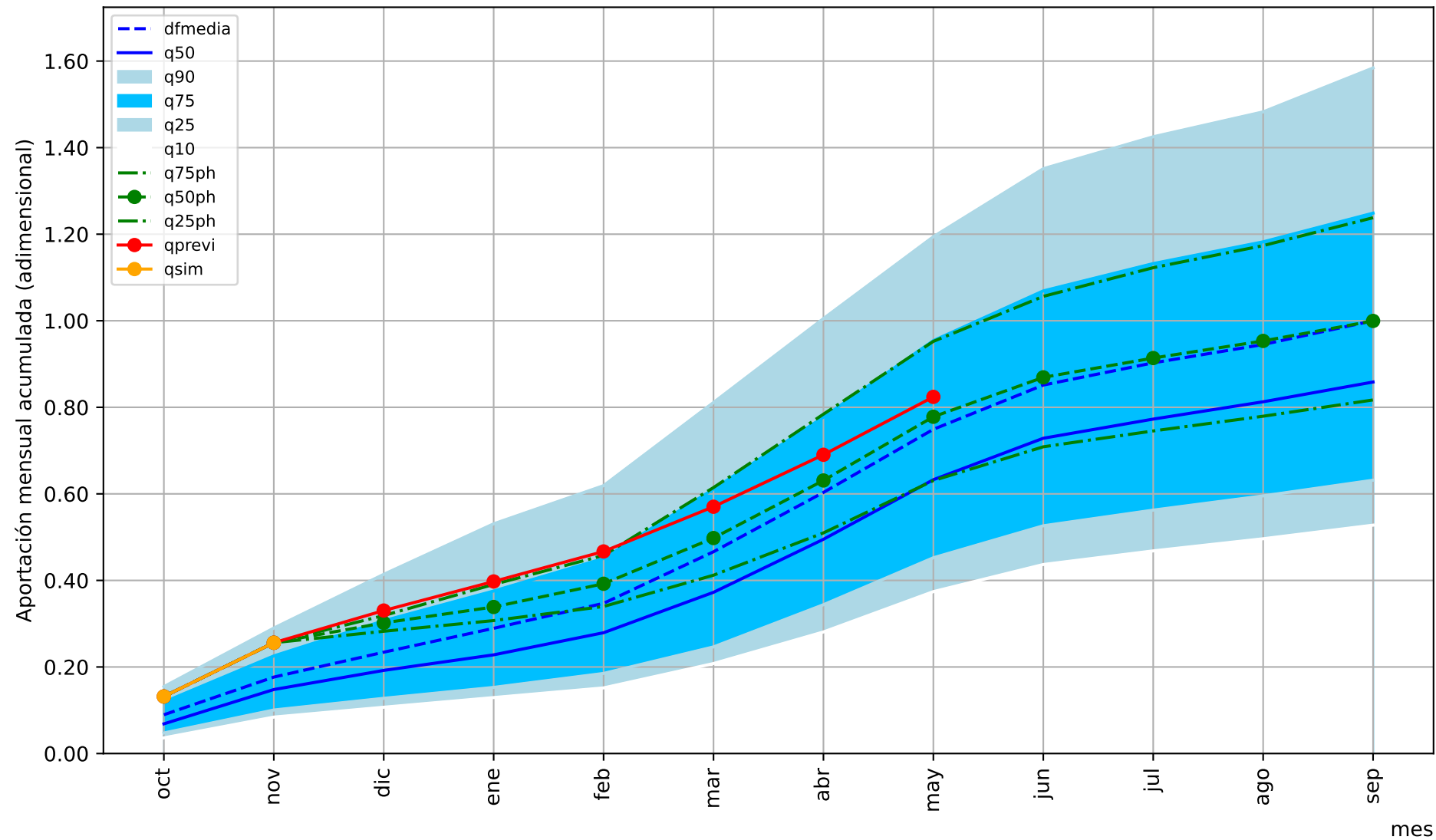
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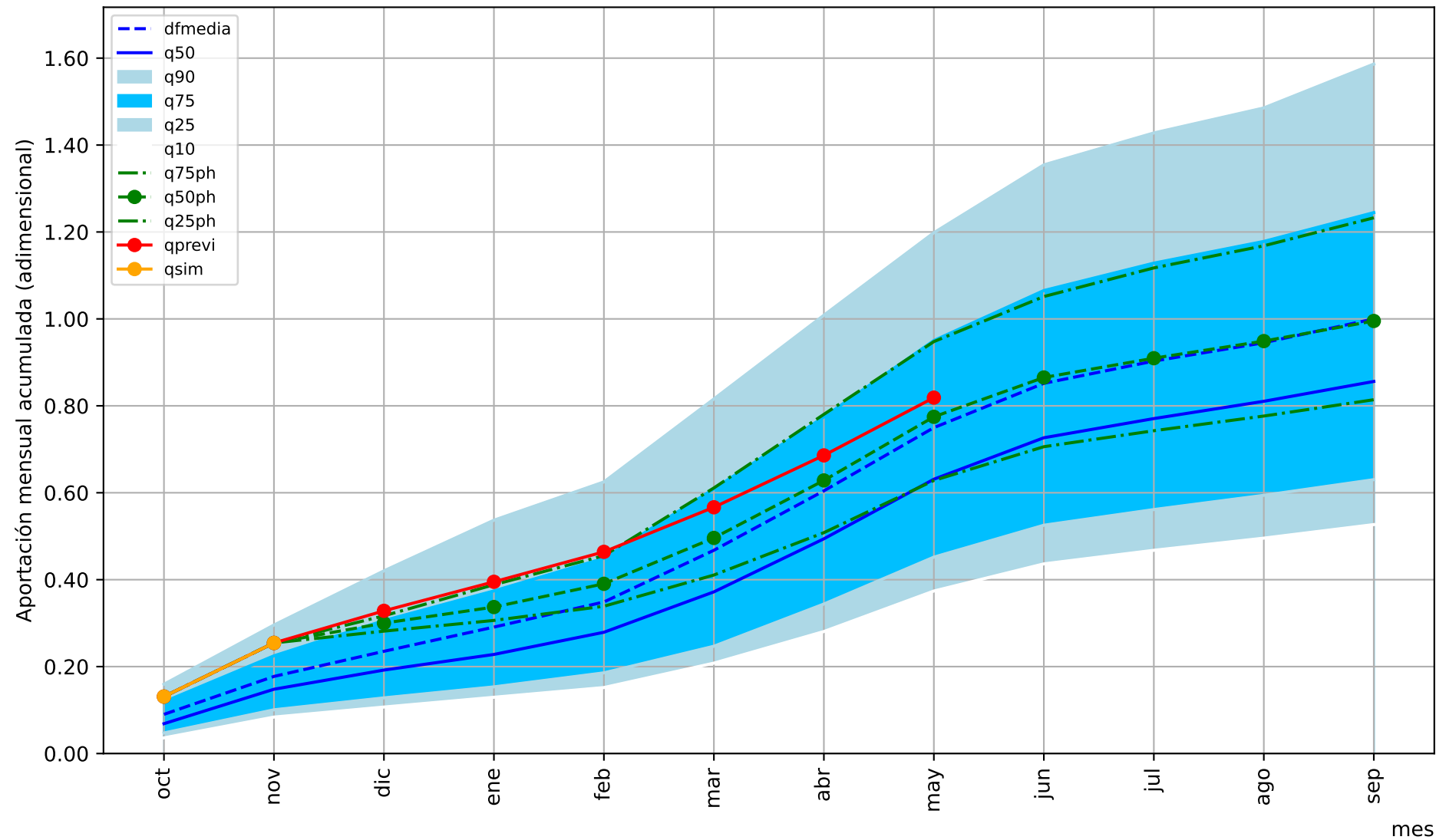
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Ministerio para la Transición Ecológica y el Reto Demográfico
Dirección General del Agua

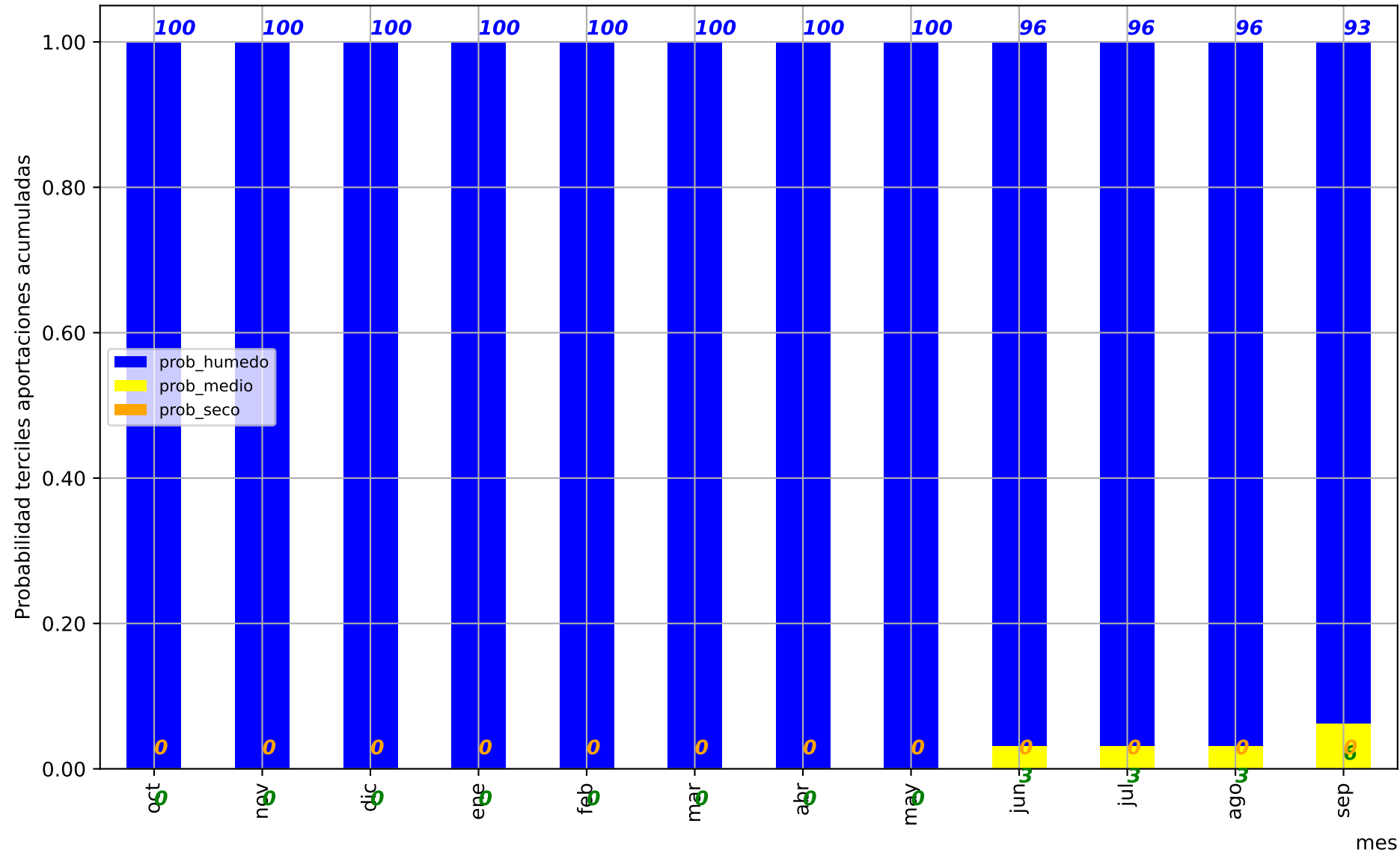
Calculo de predicciones hidrológicas estacionales

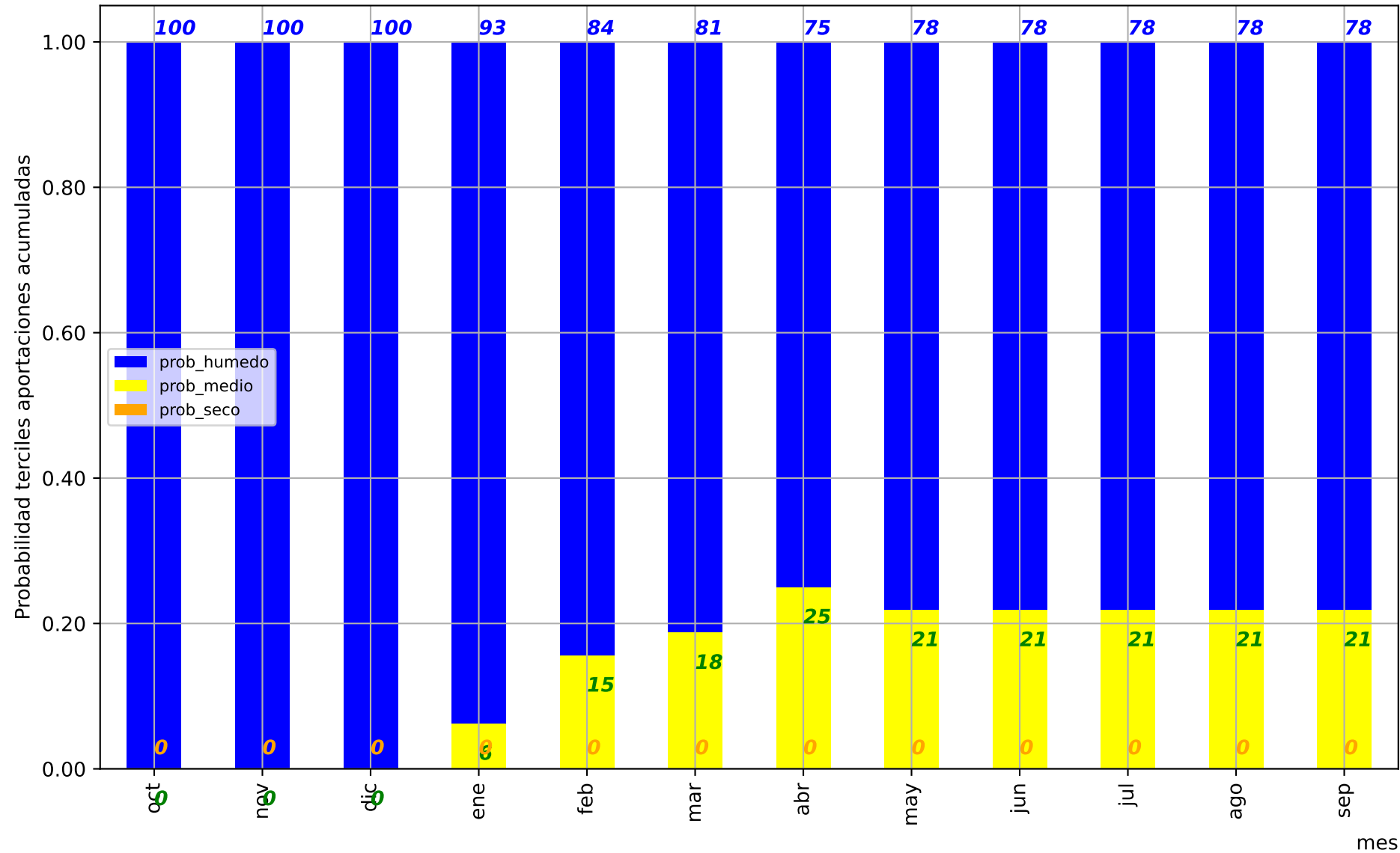
Modelo simulación hidrológica: PATRICAL

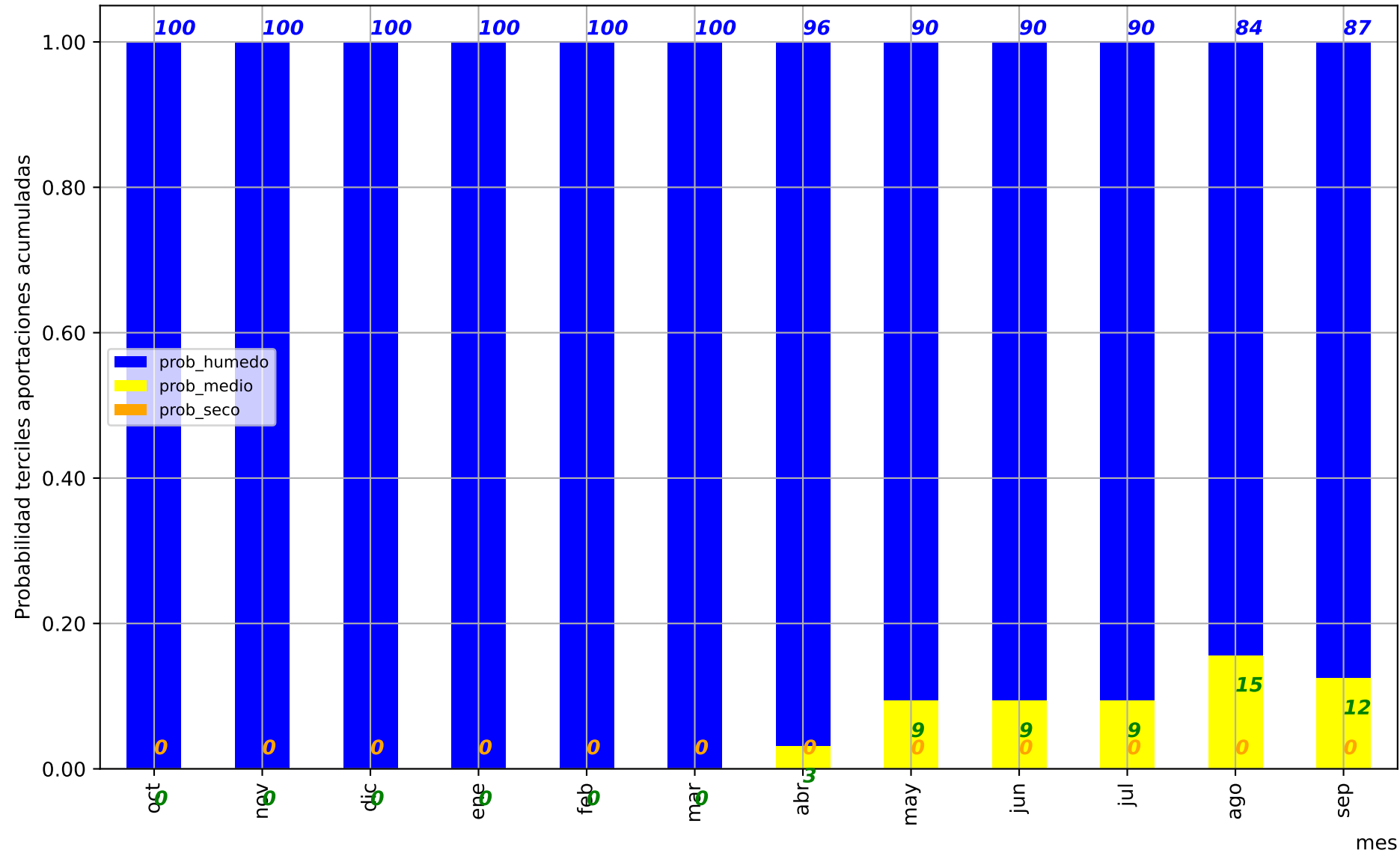
Aportaciones hidrológicas en régimen natural

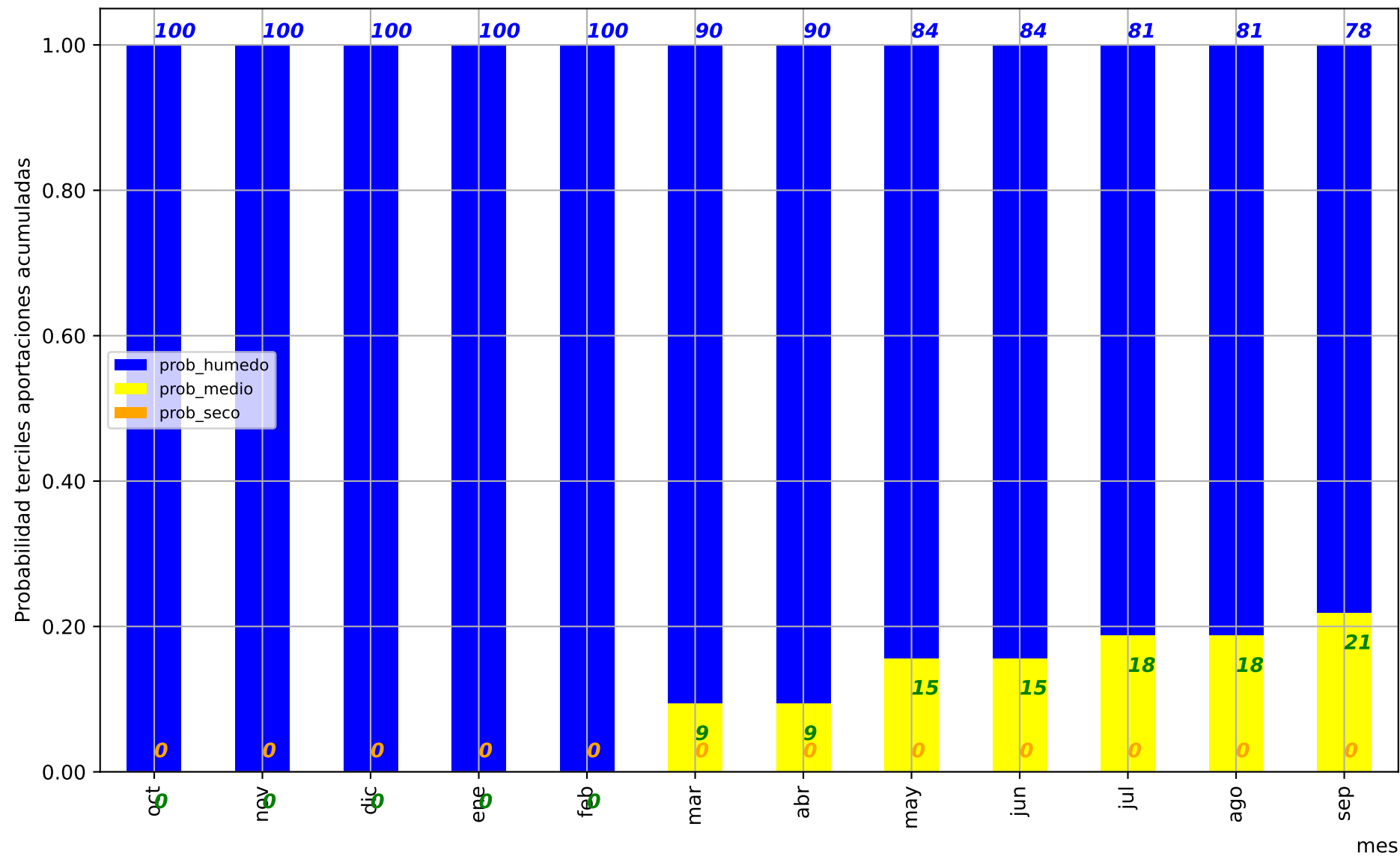
Predicción realizada en diciembre de 2023

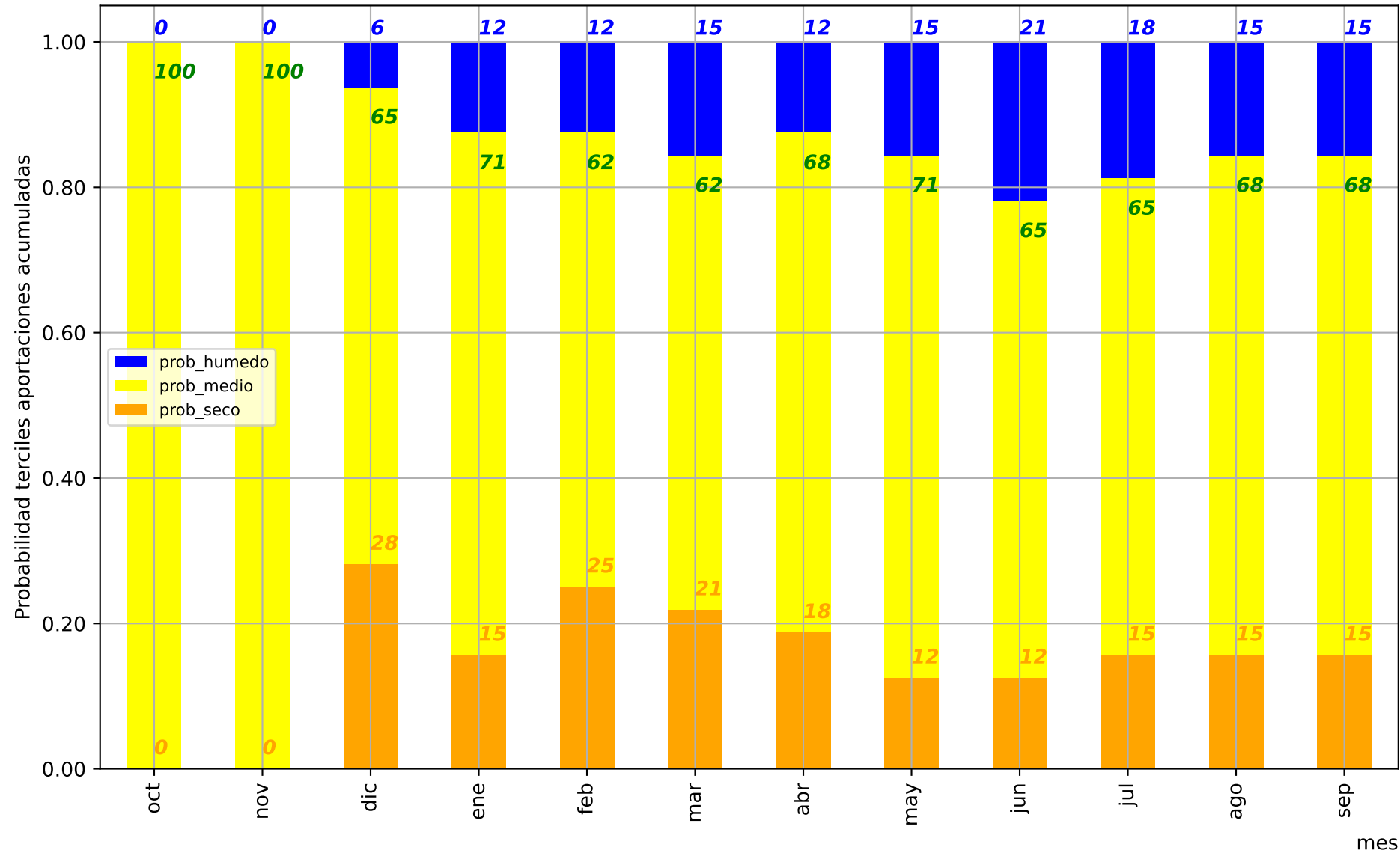
Universitat Politècnica de València
IIAMA - Instituto de Ingeniería del Agua y Medio Ambiente

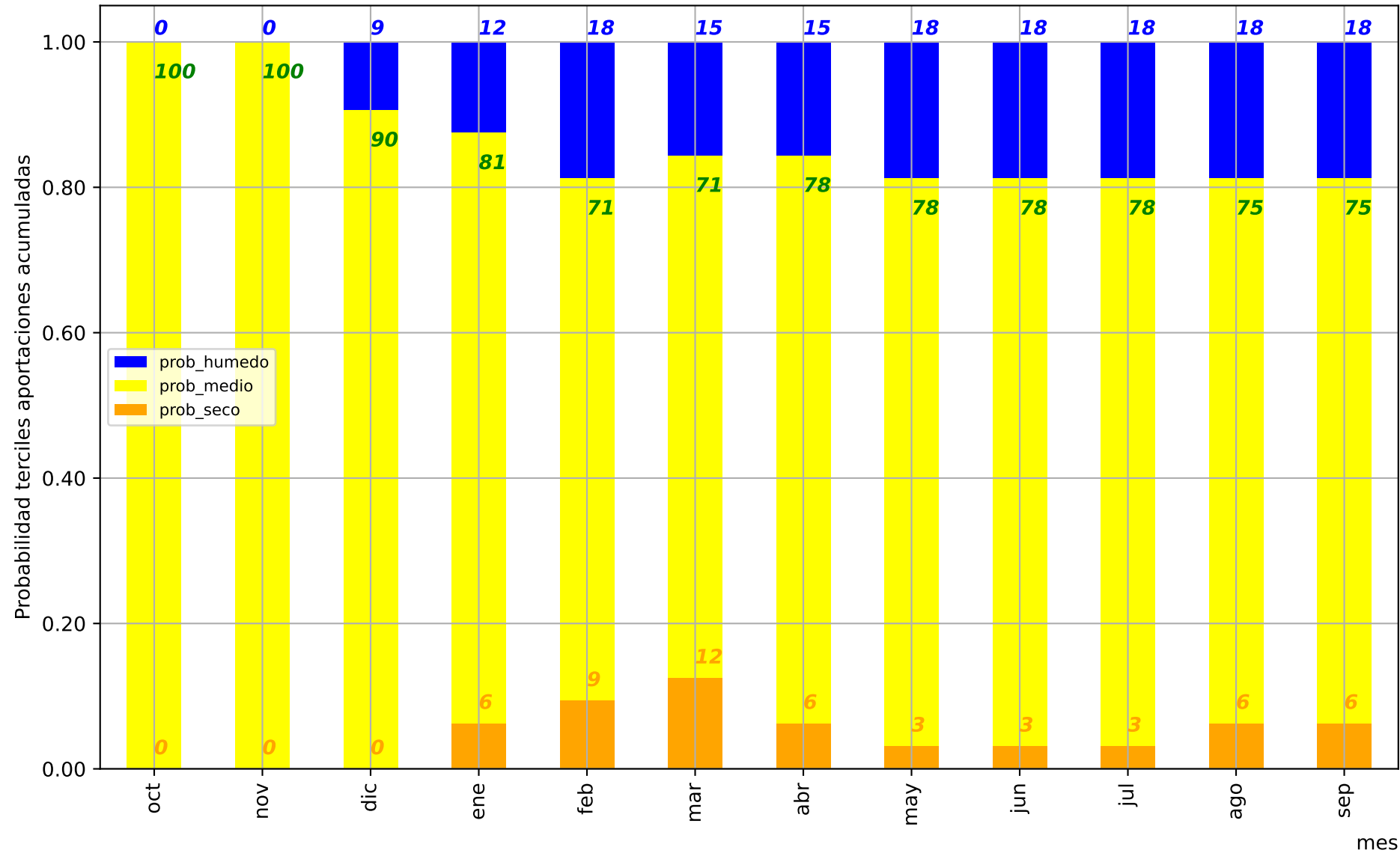


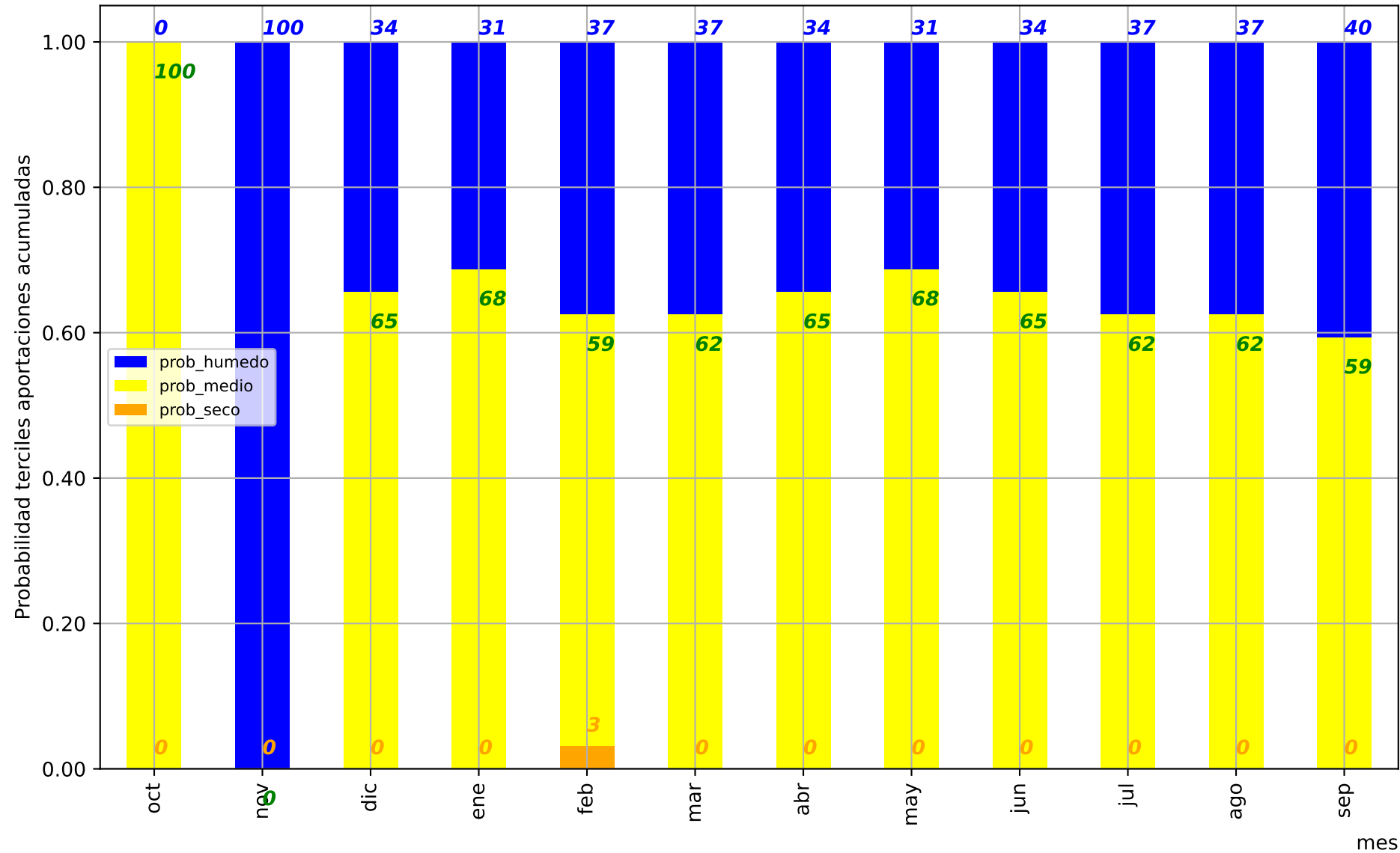


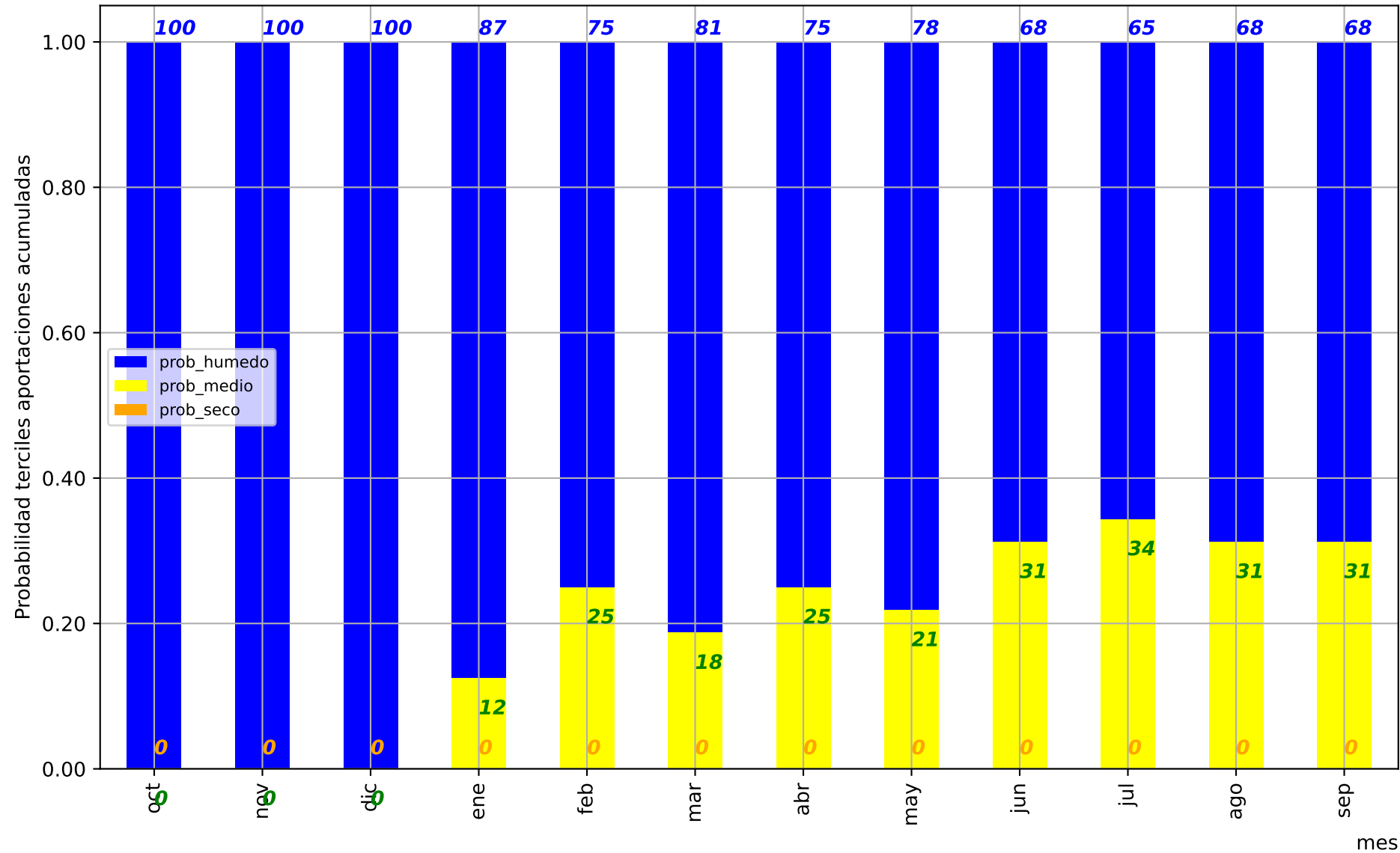


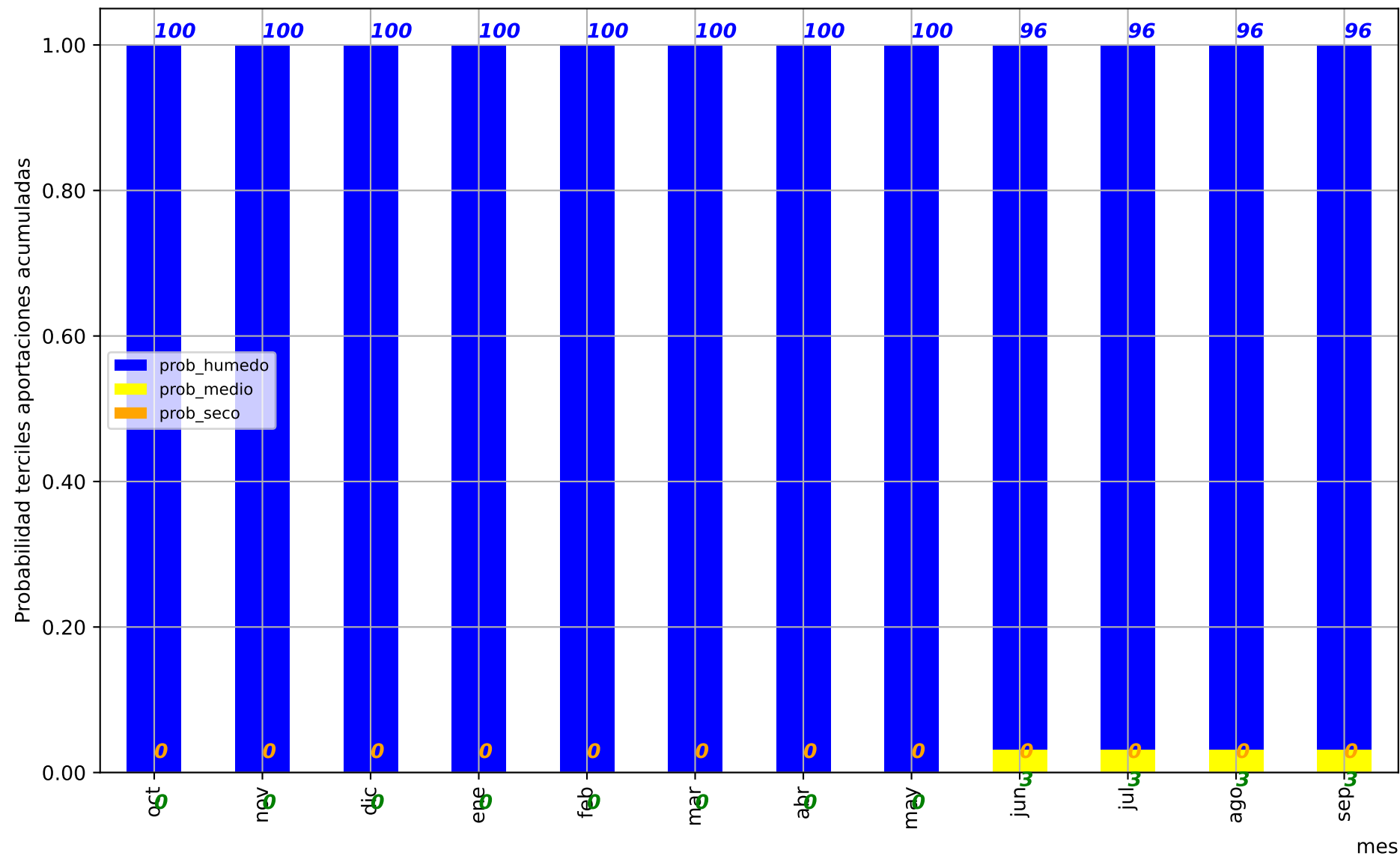


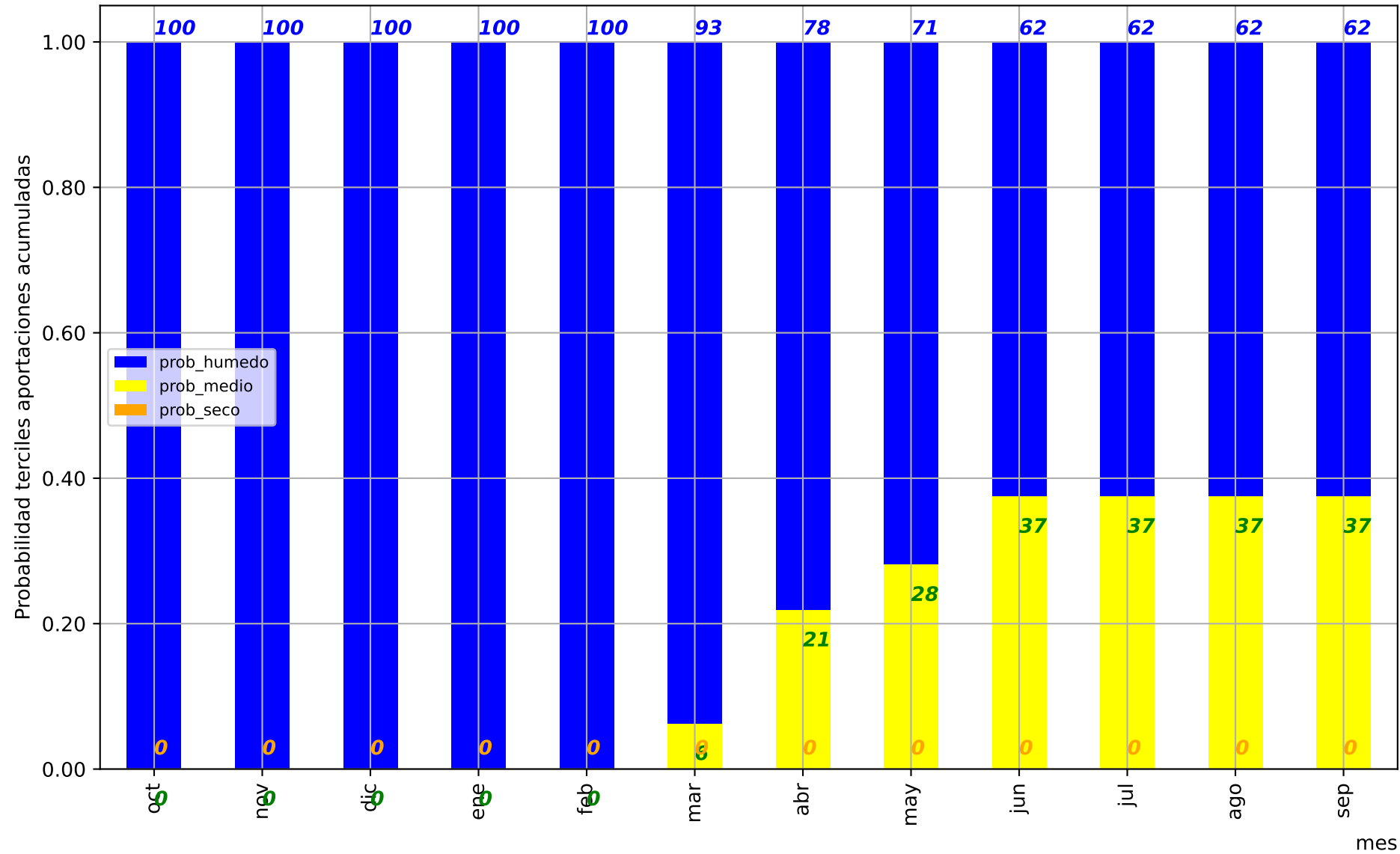


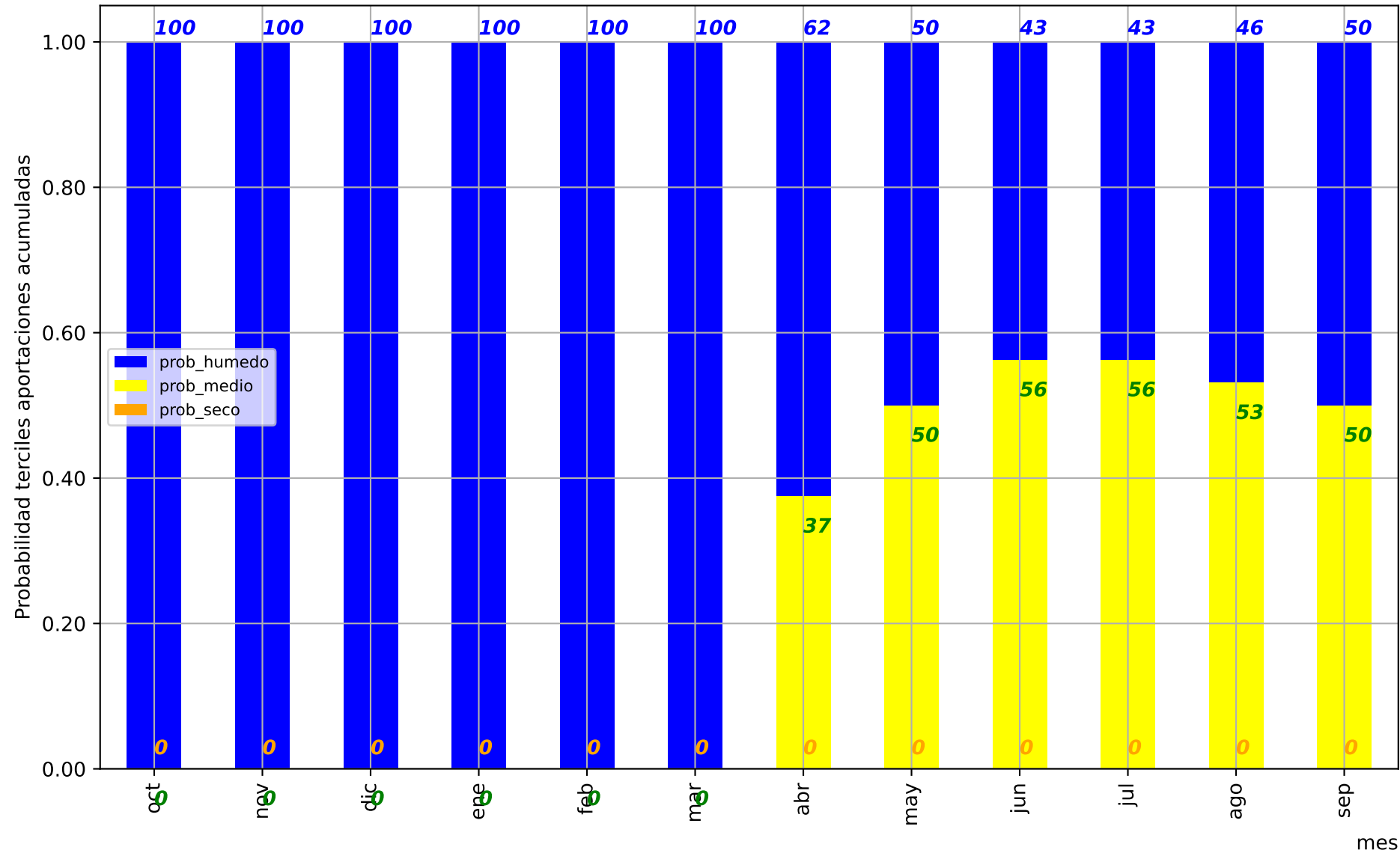


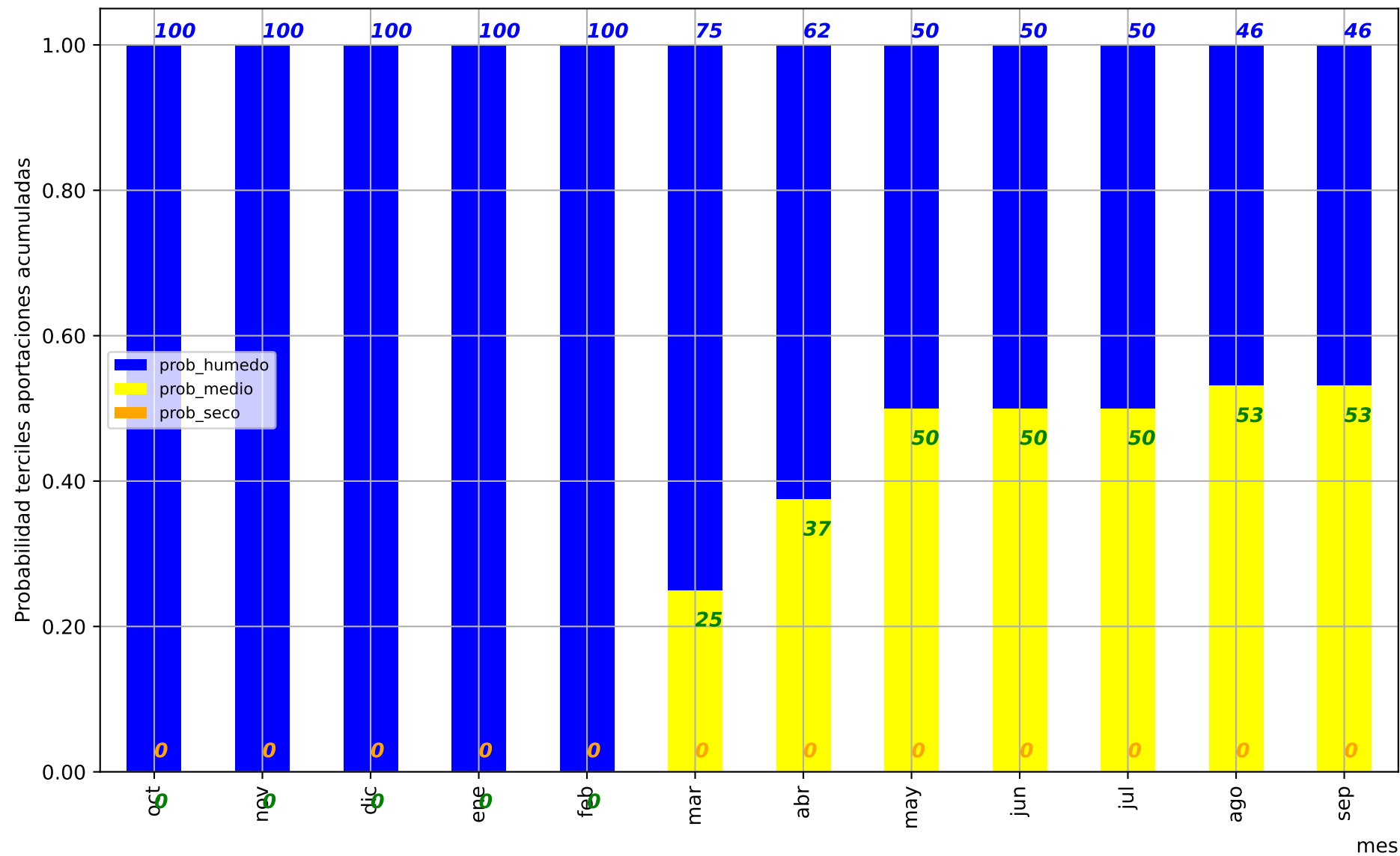


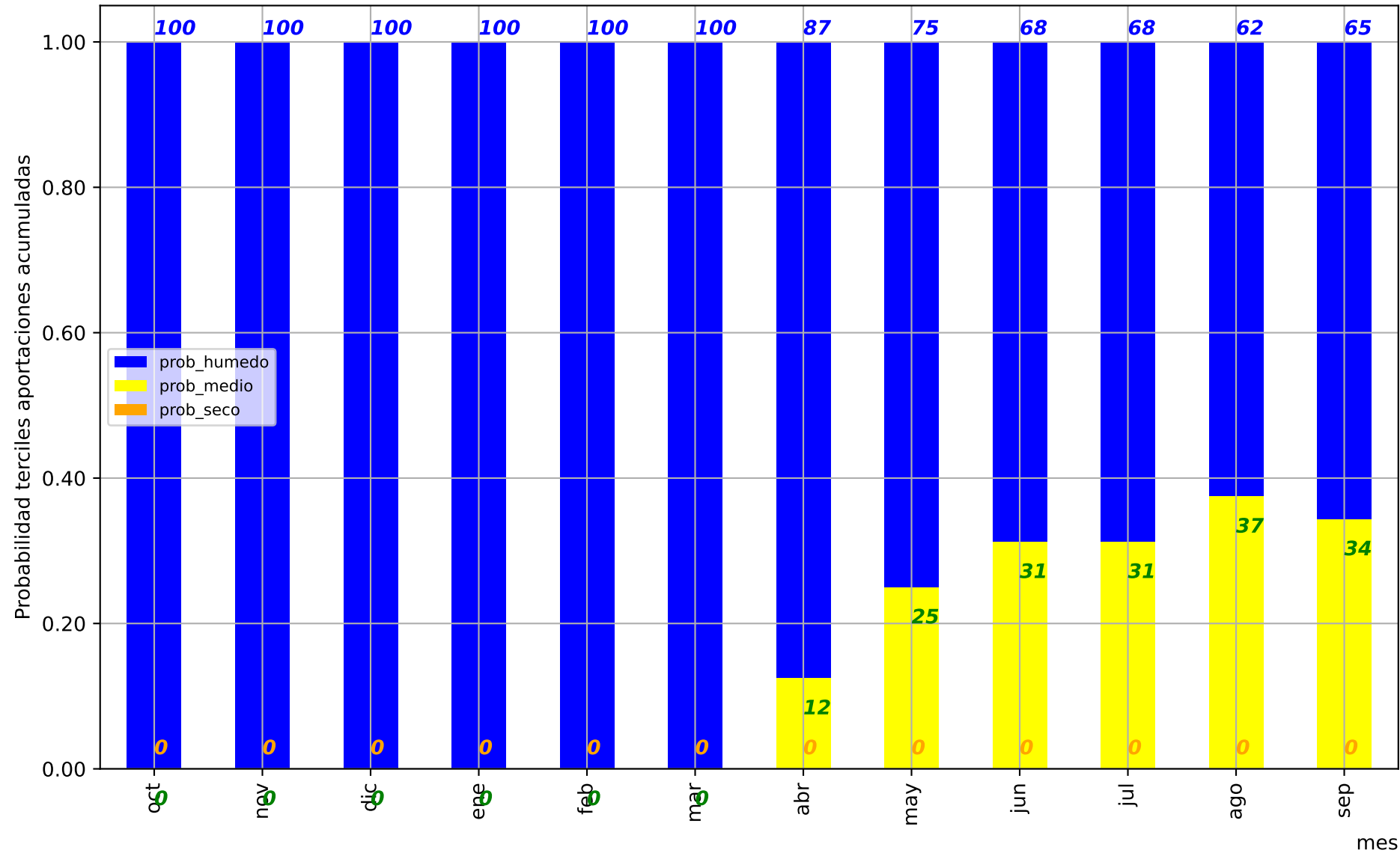


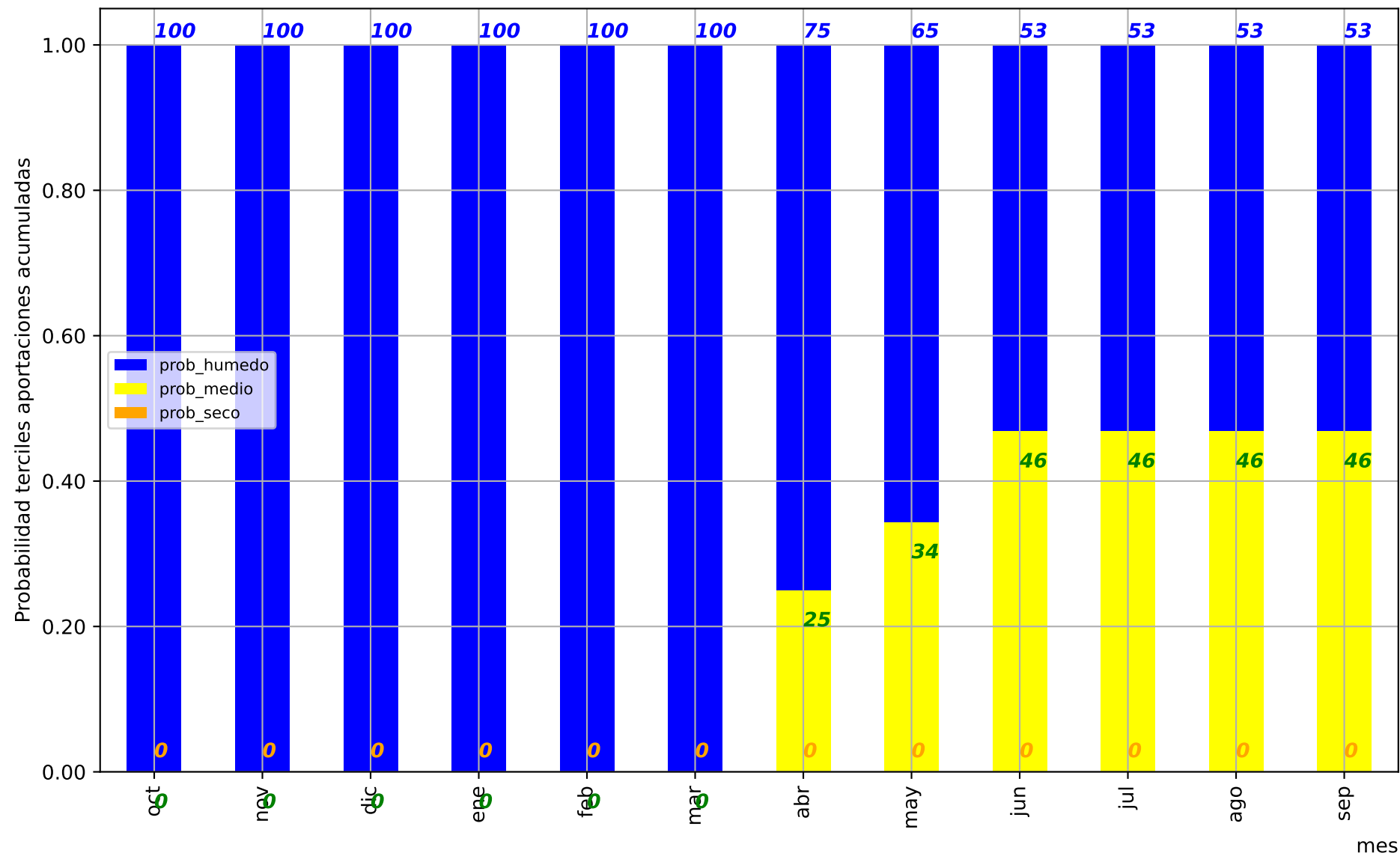


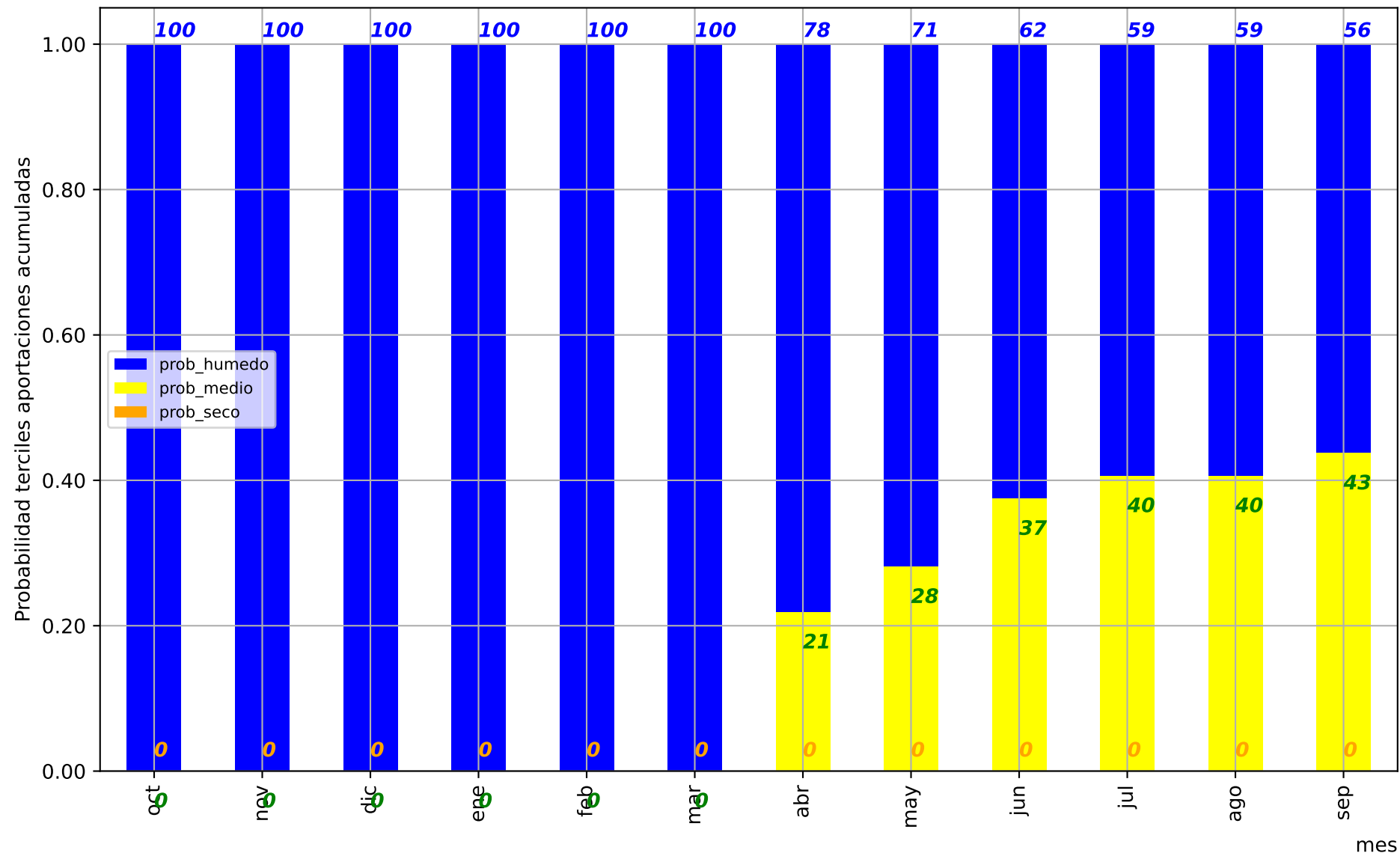


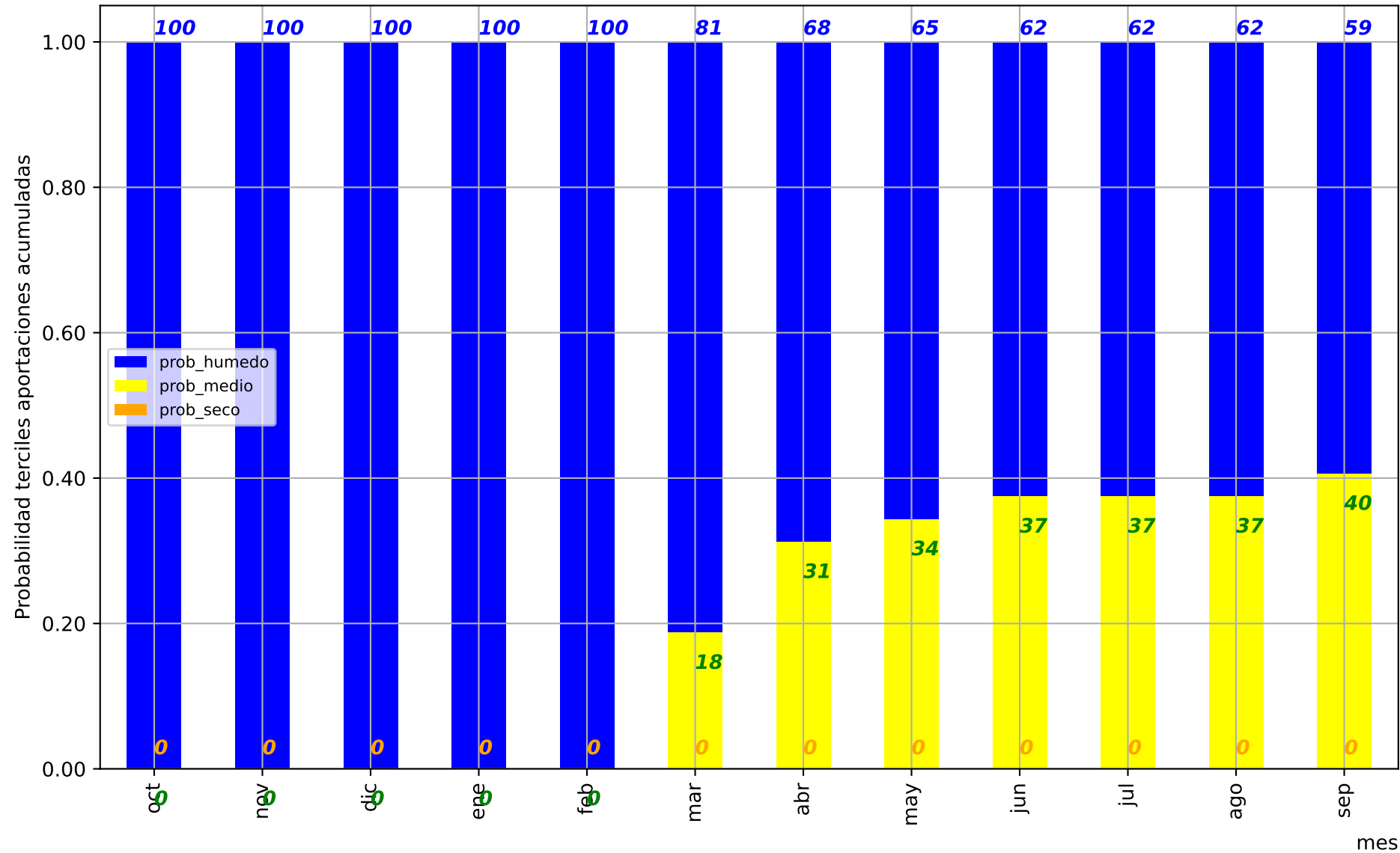


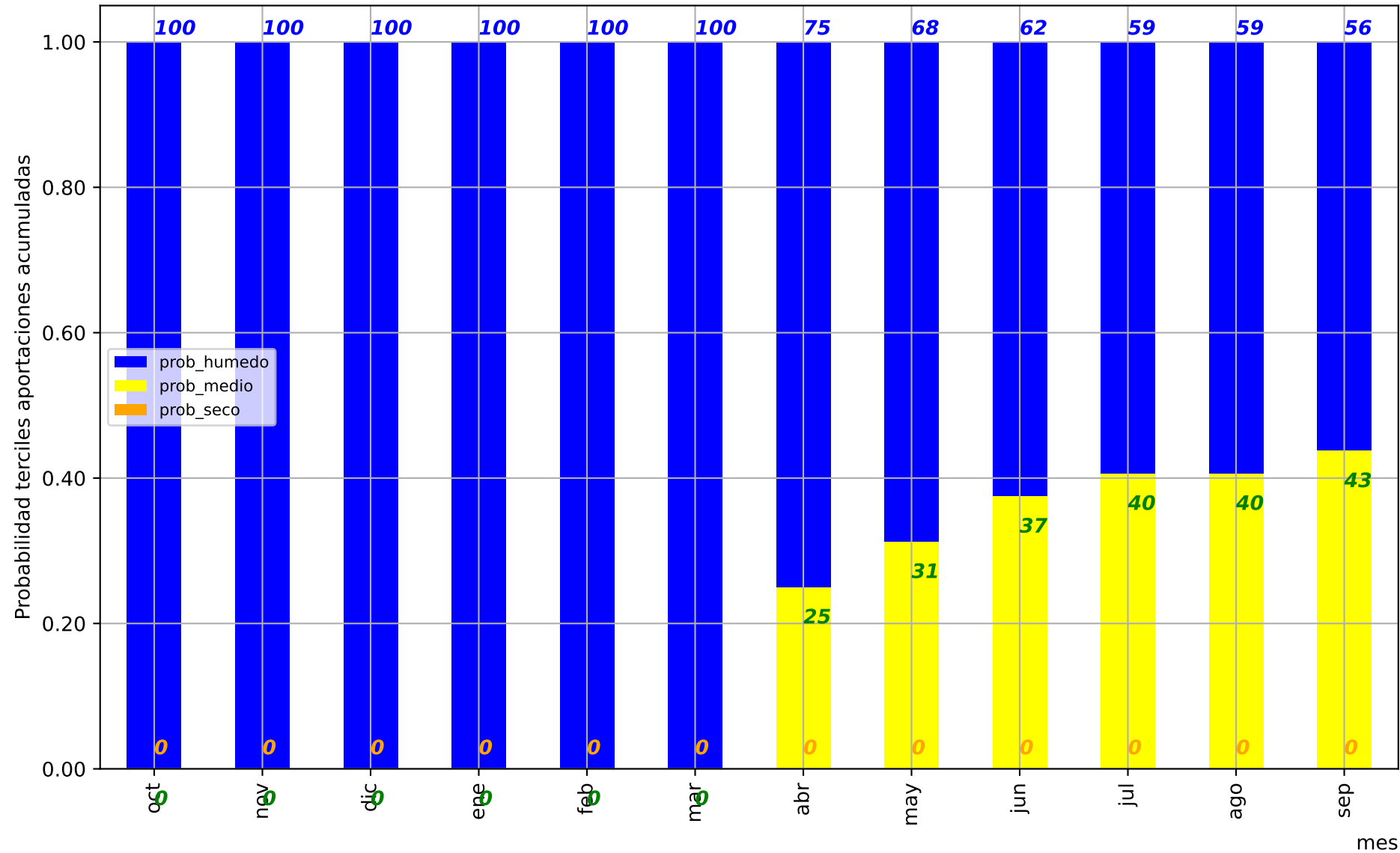


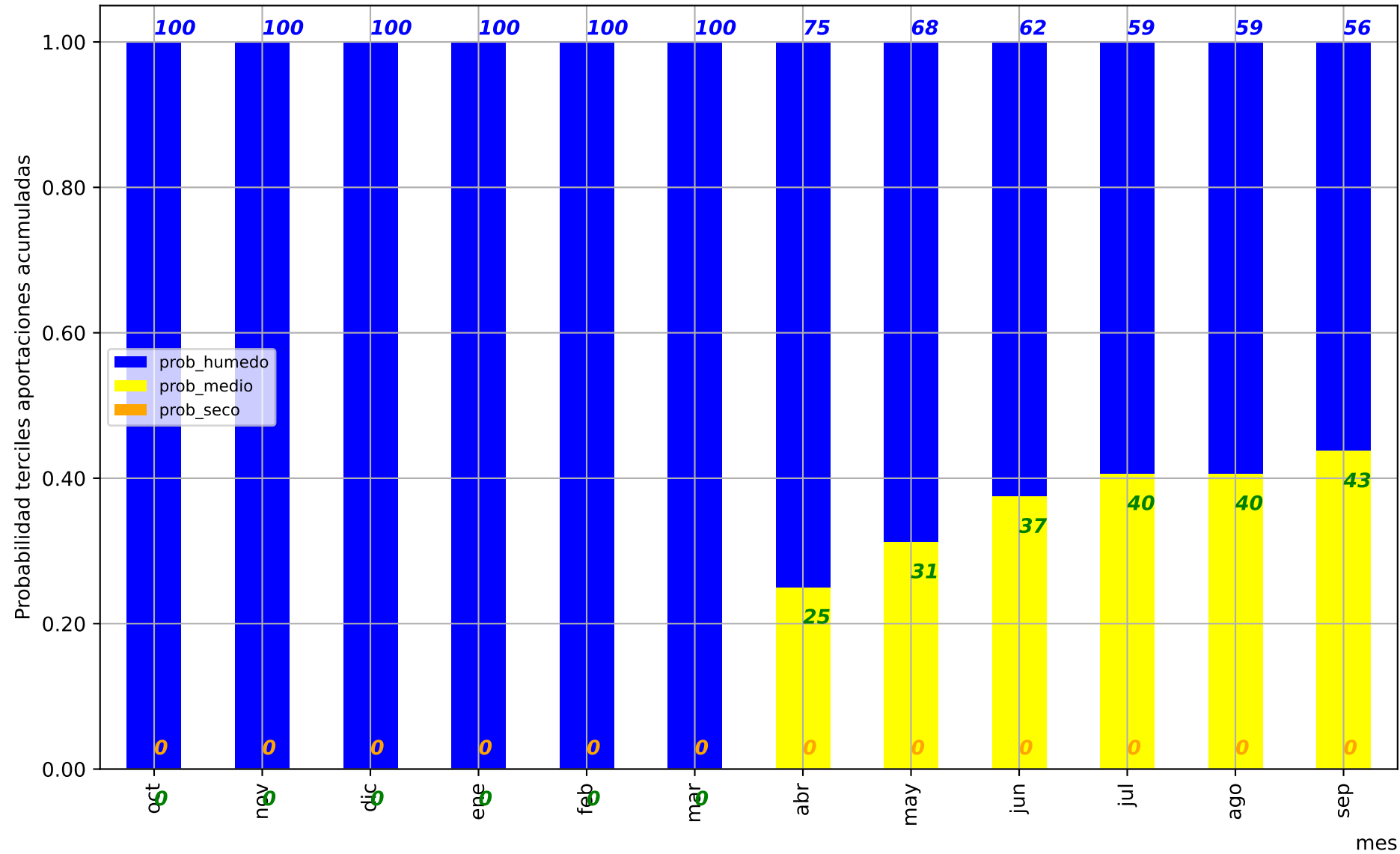


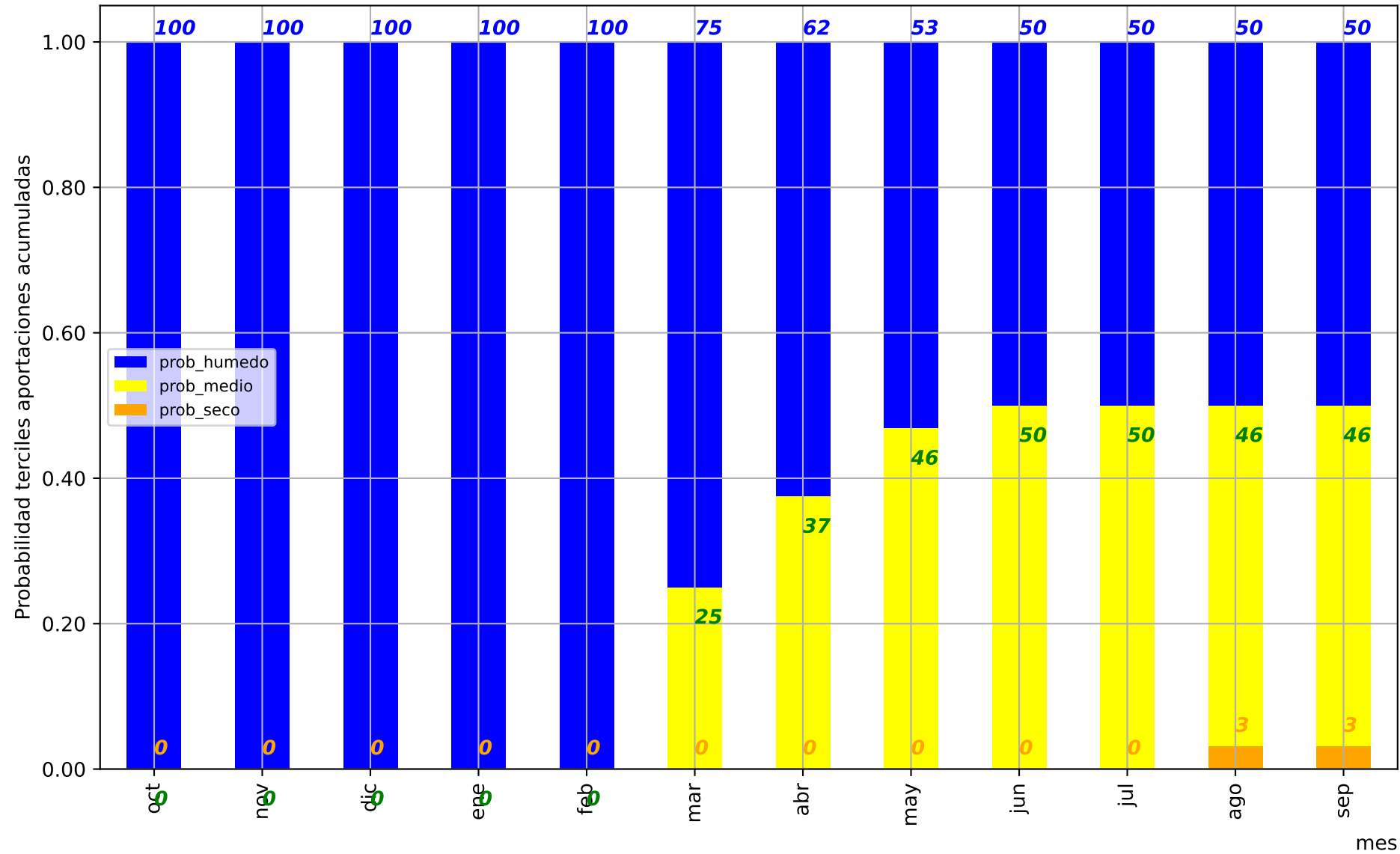


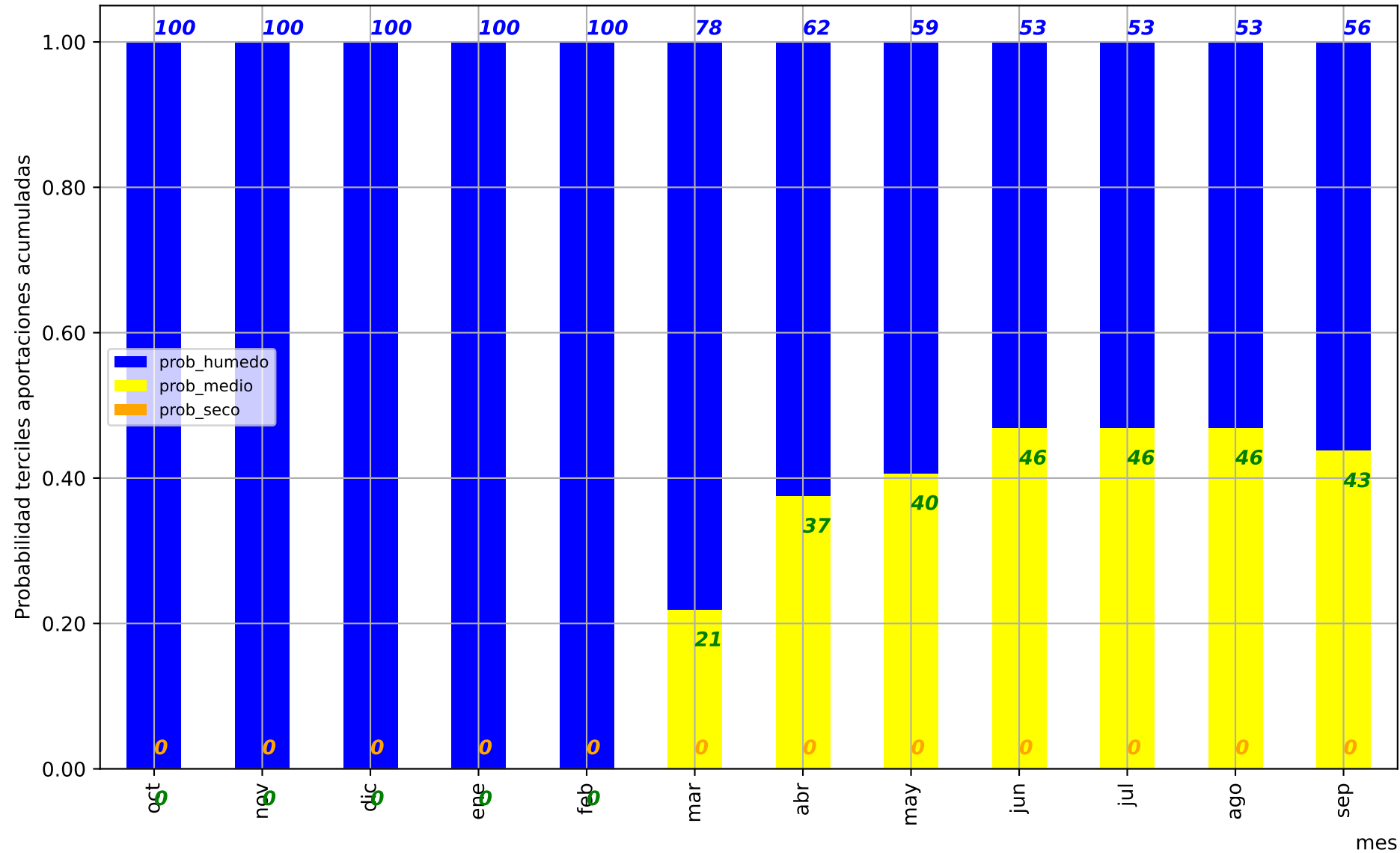


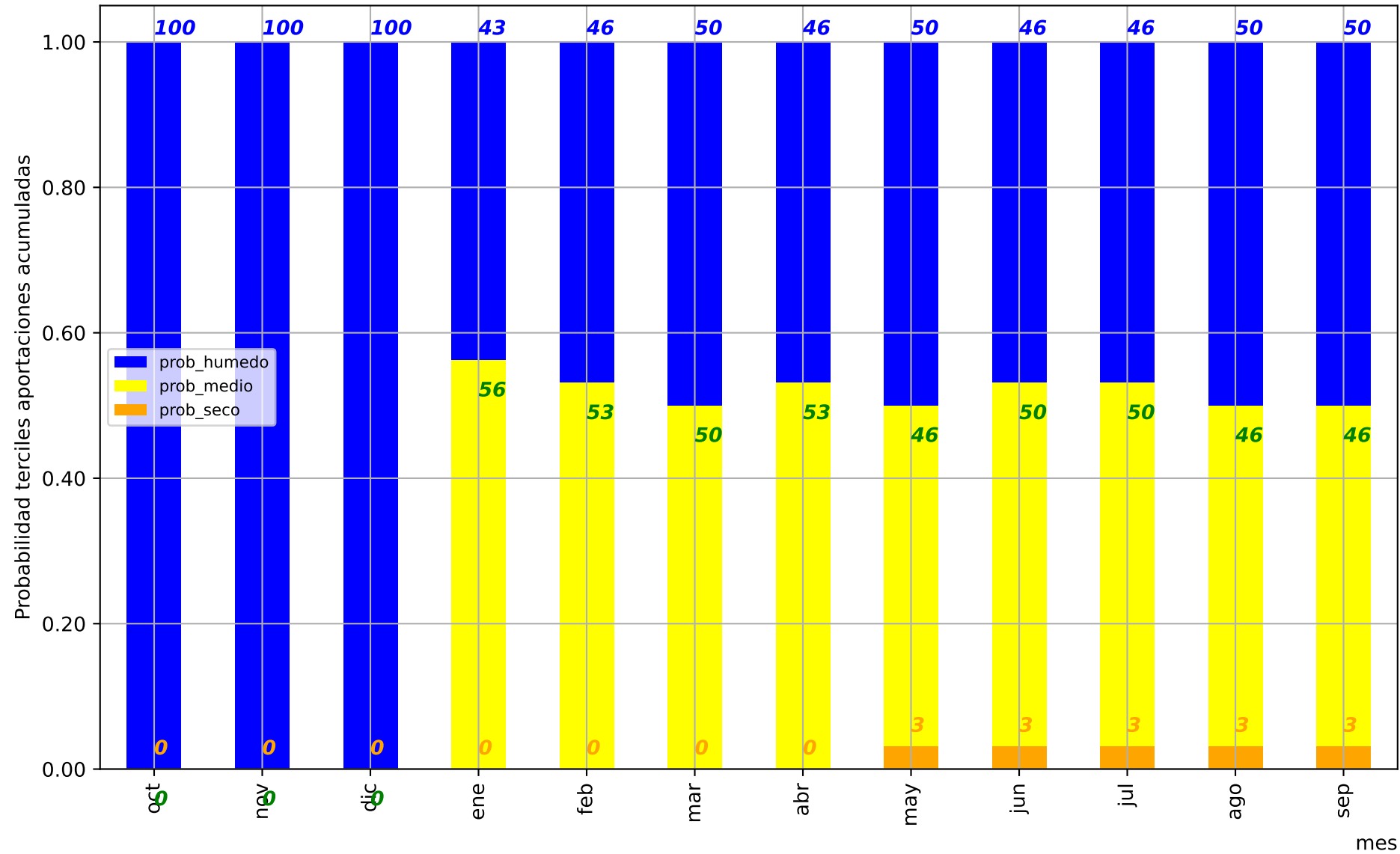


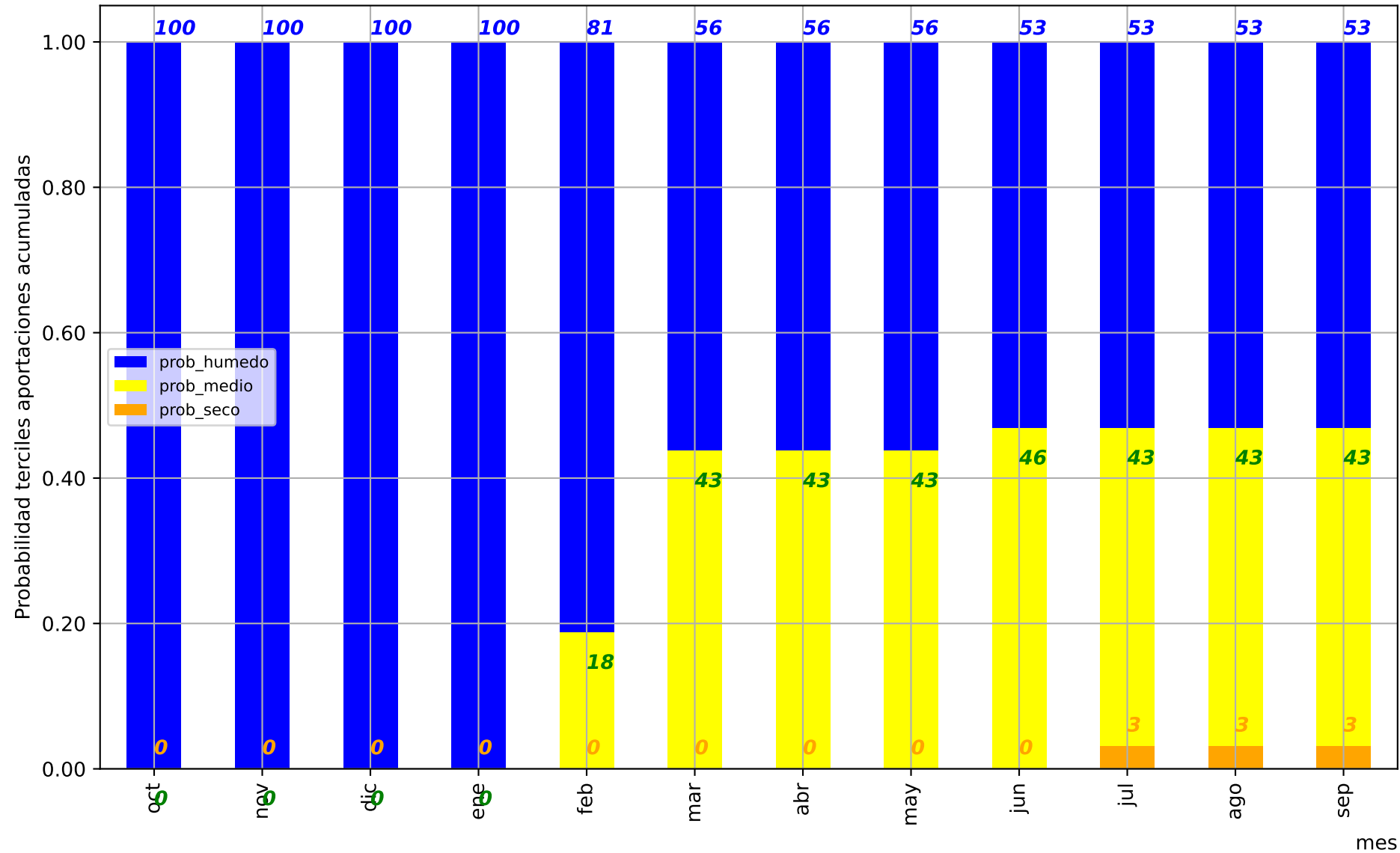


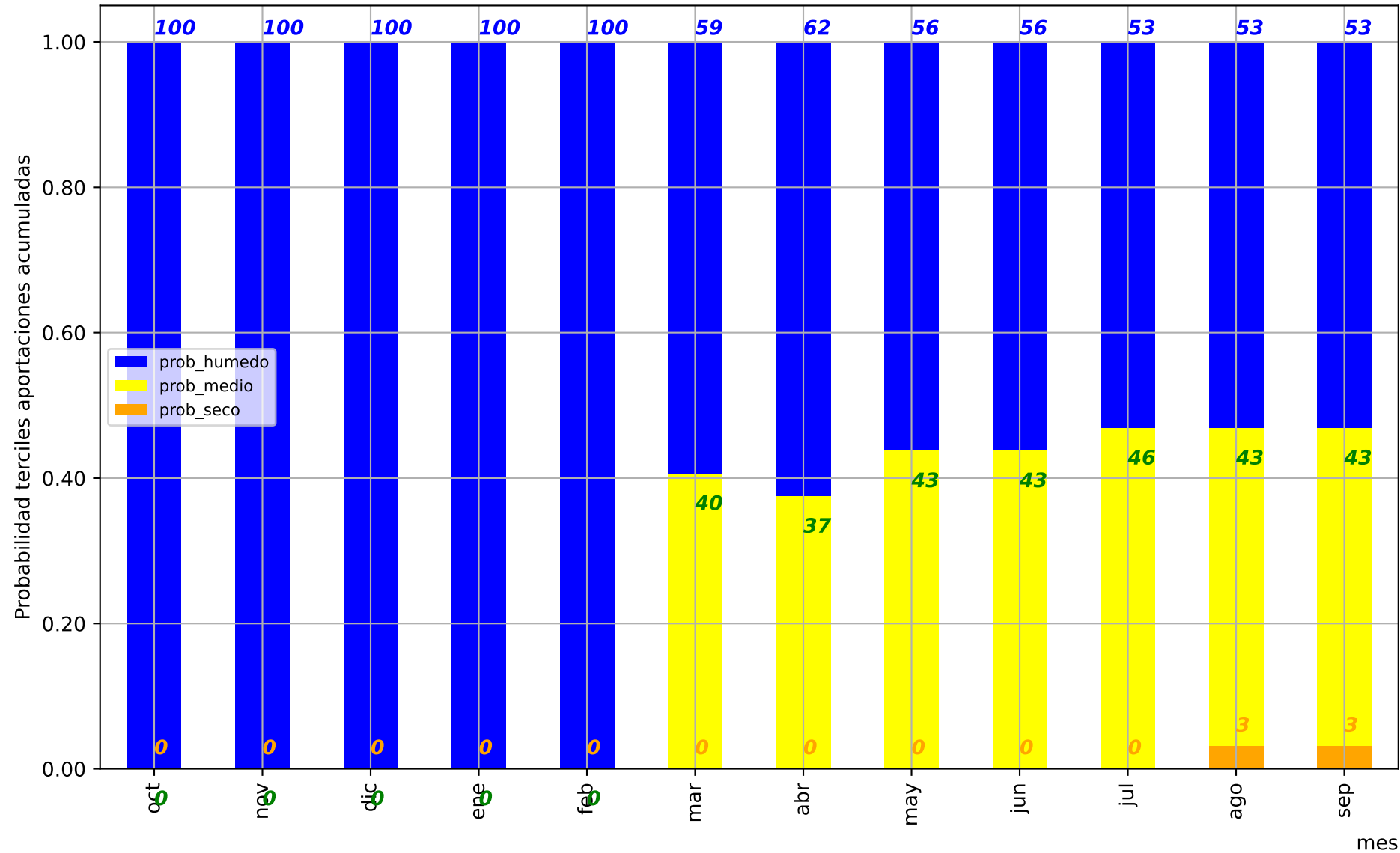


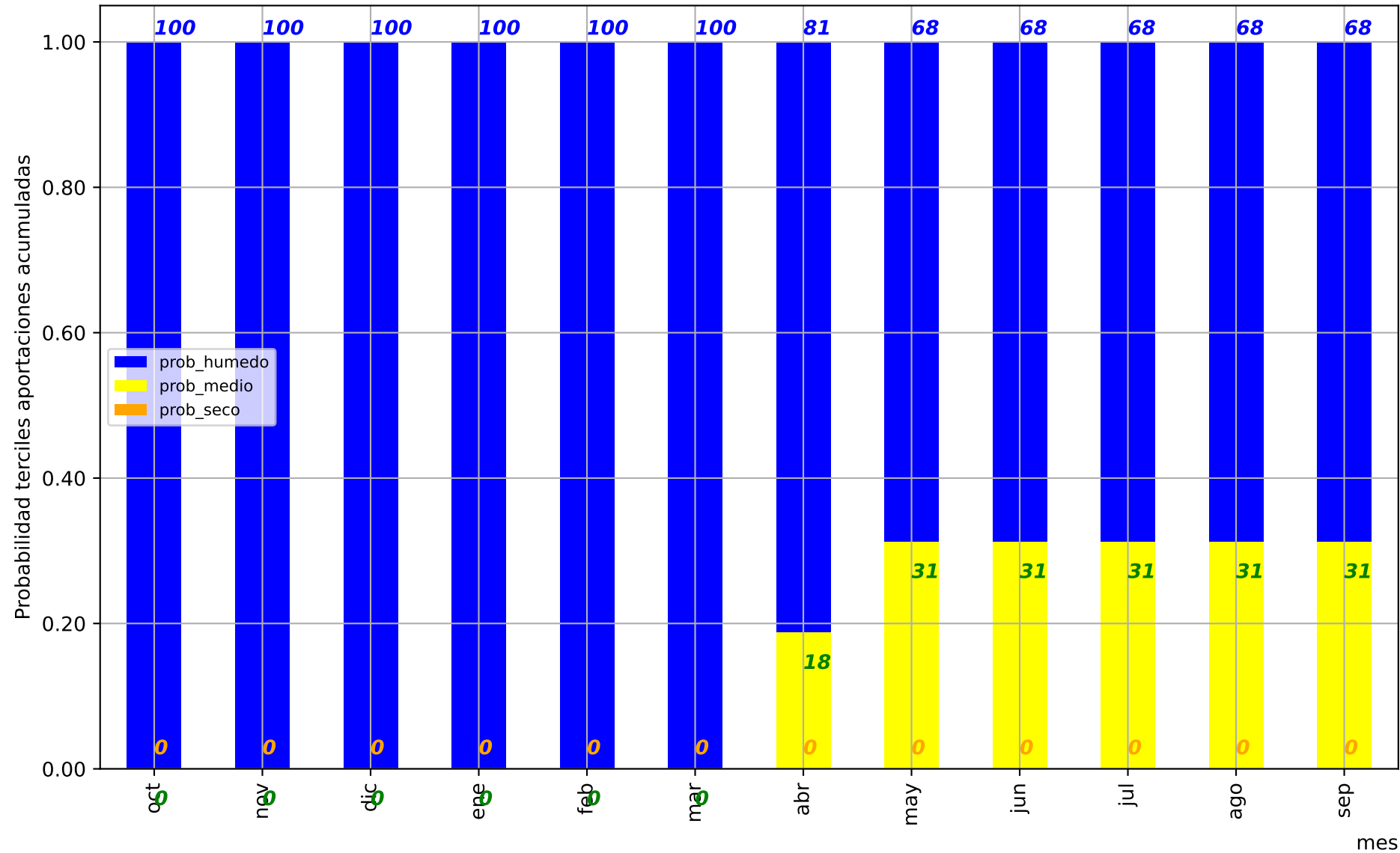


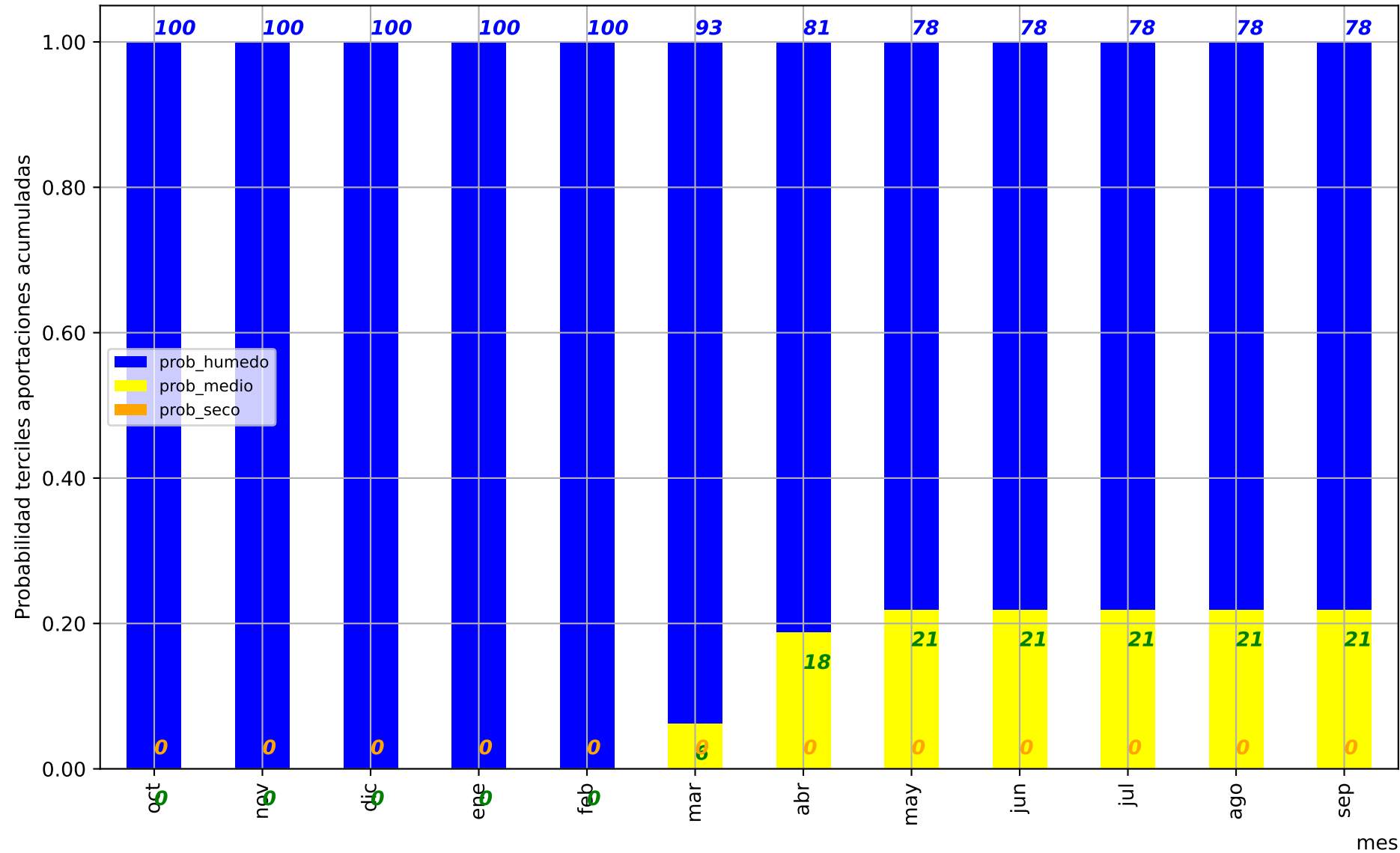


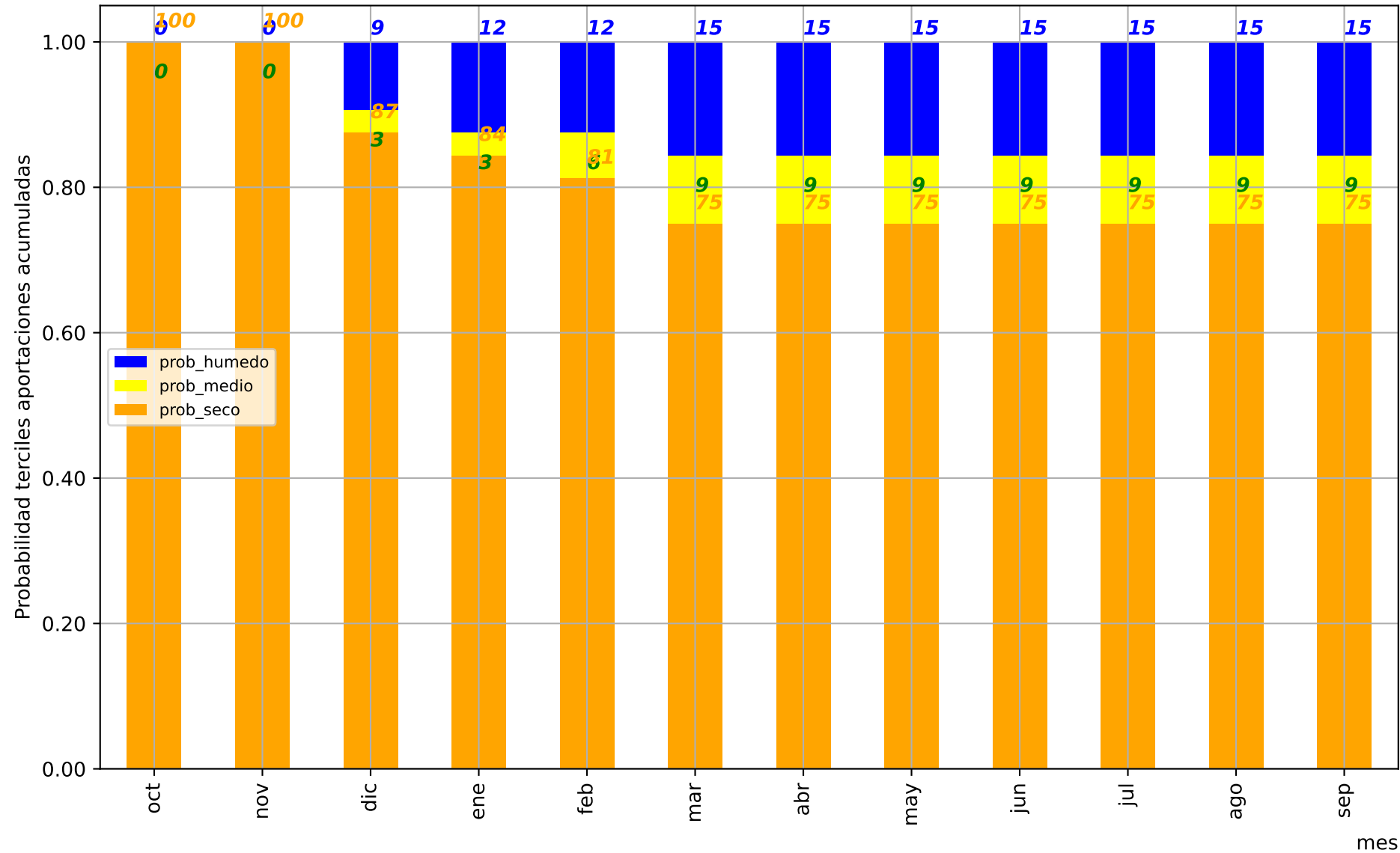


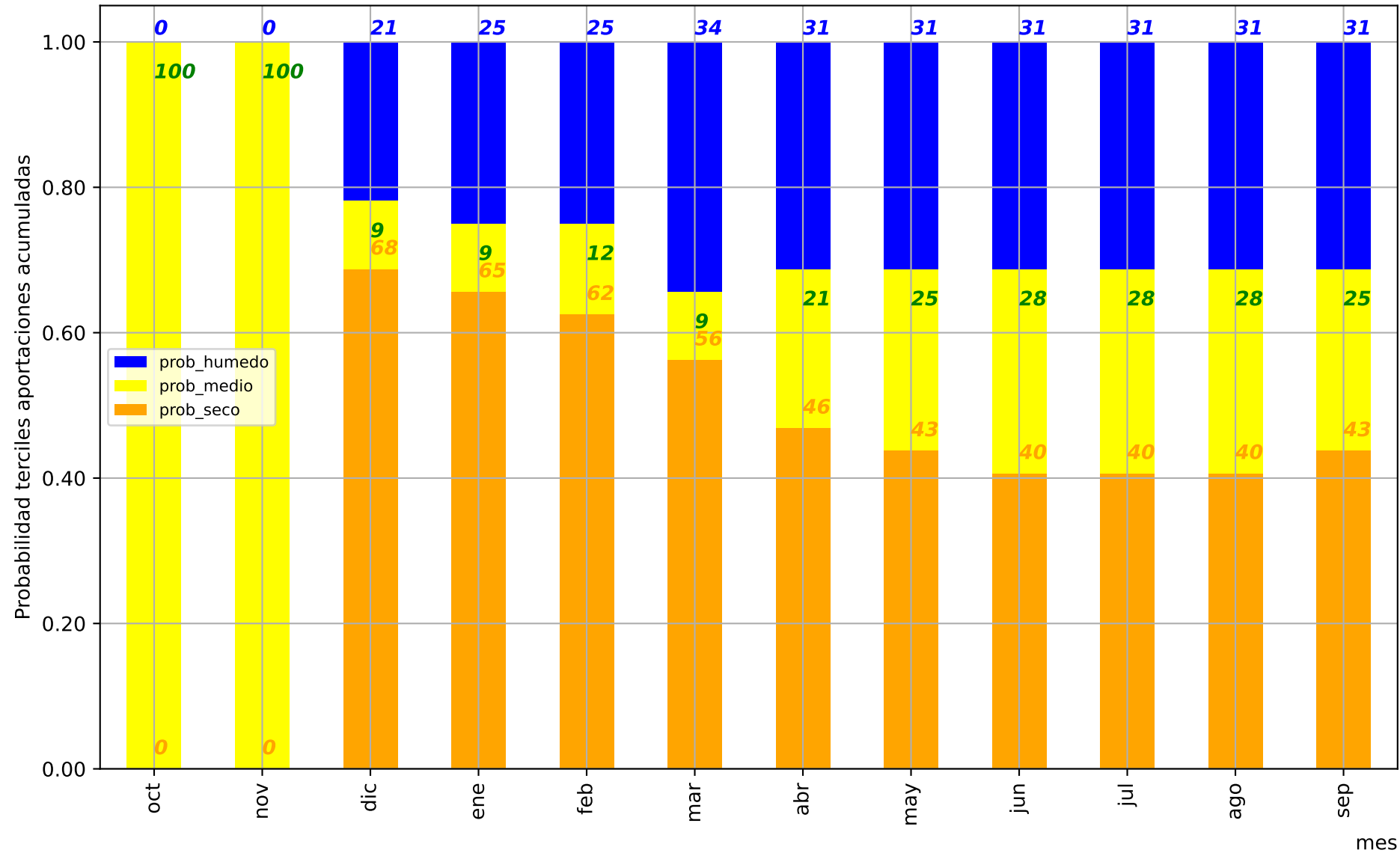


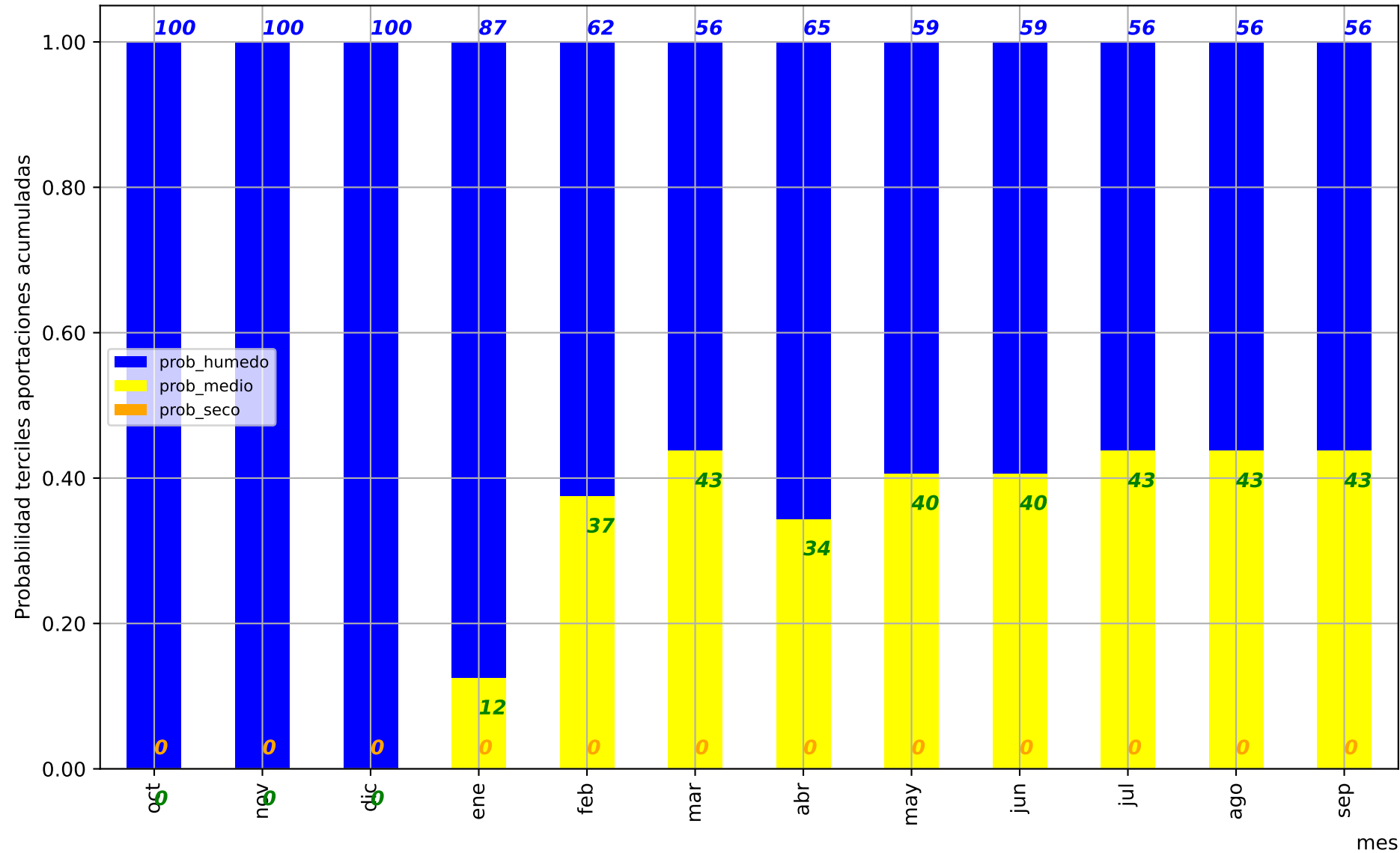


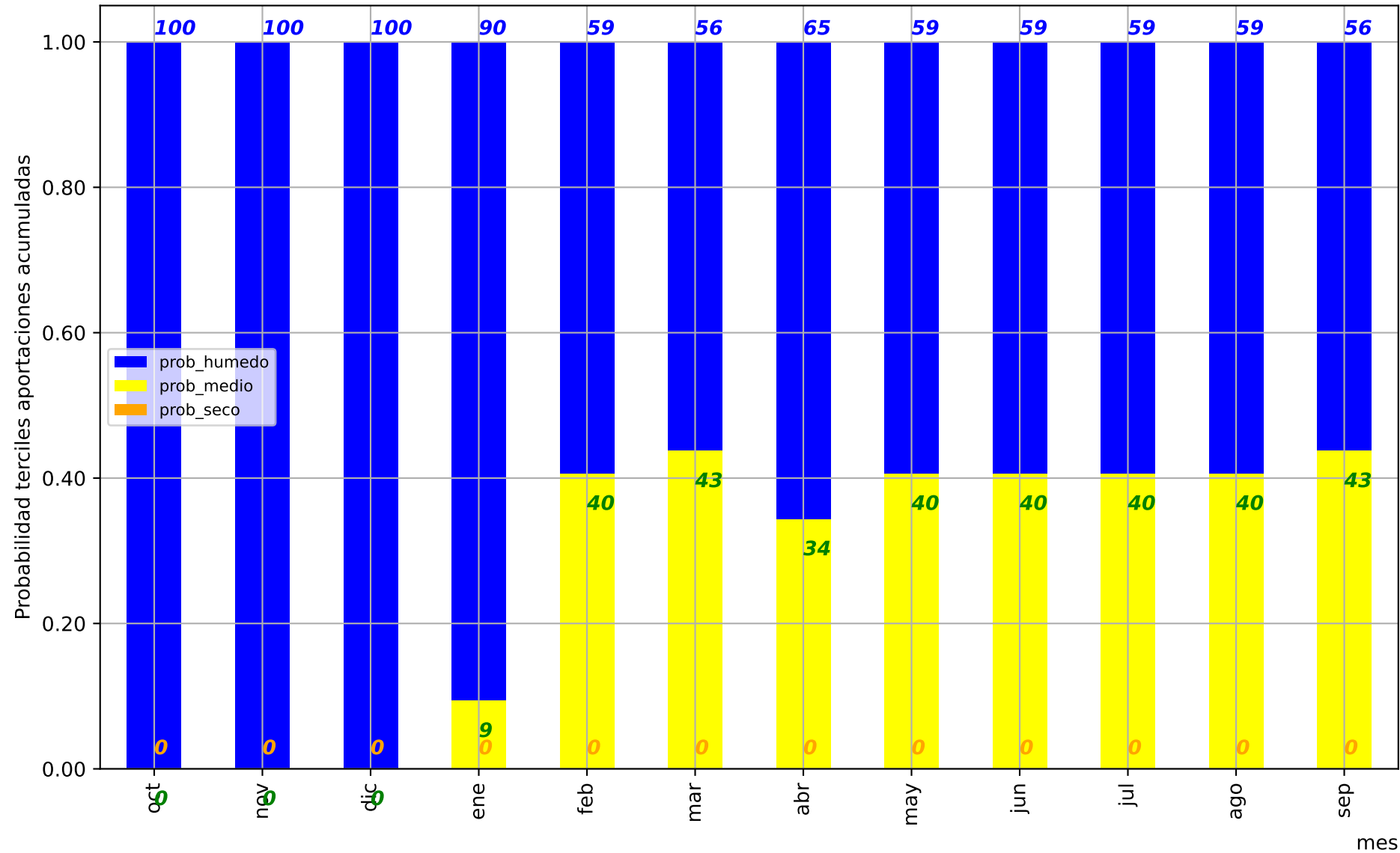


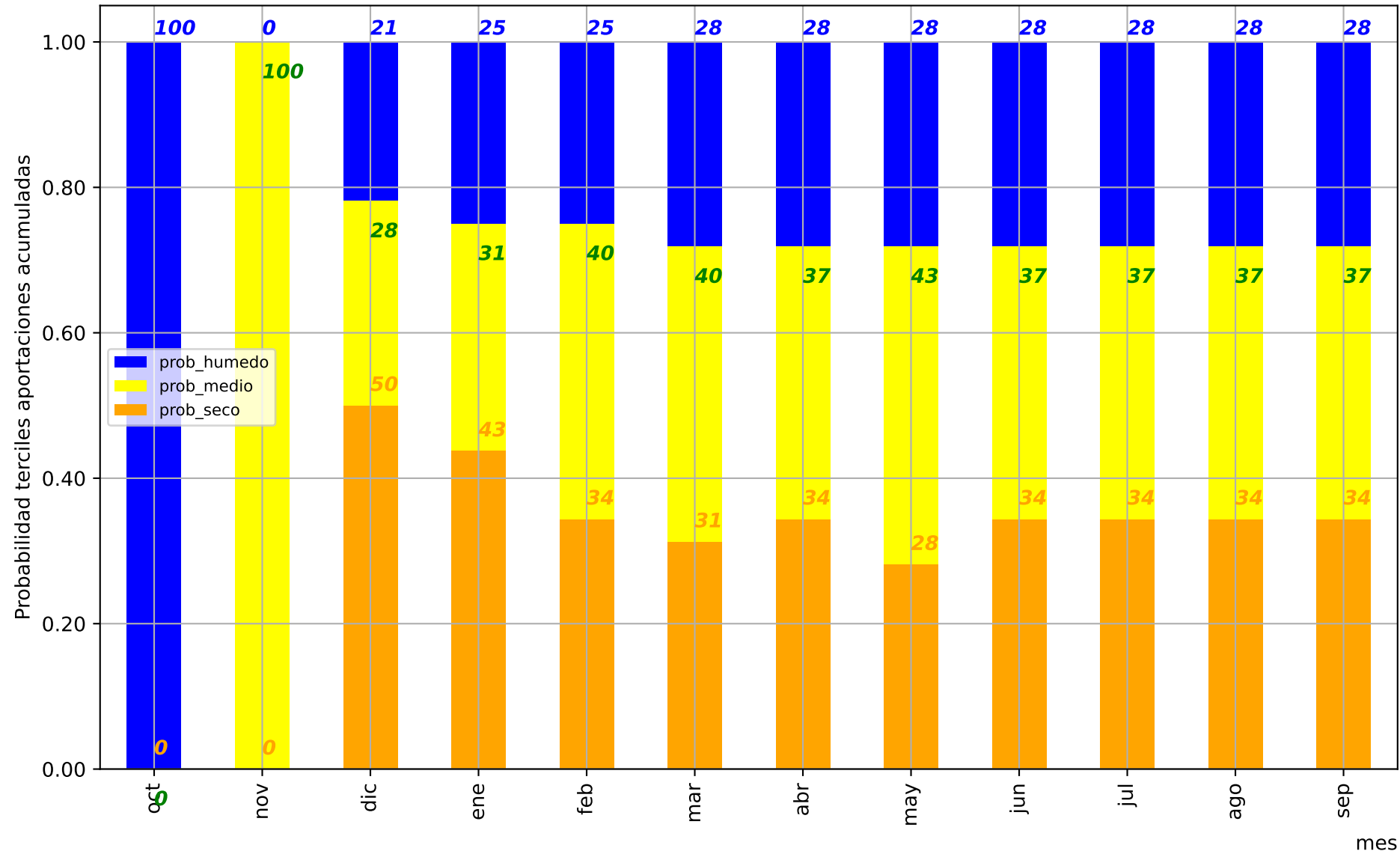


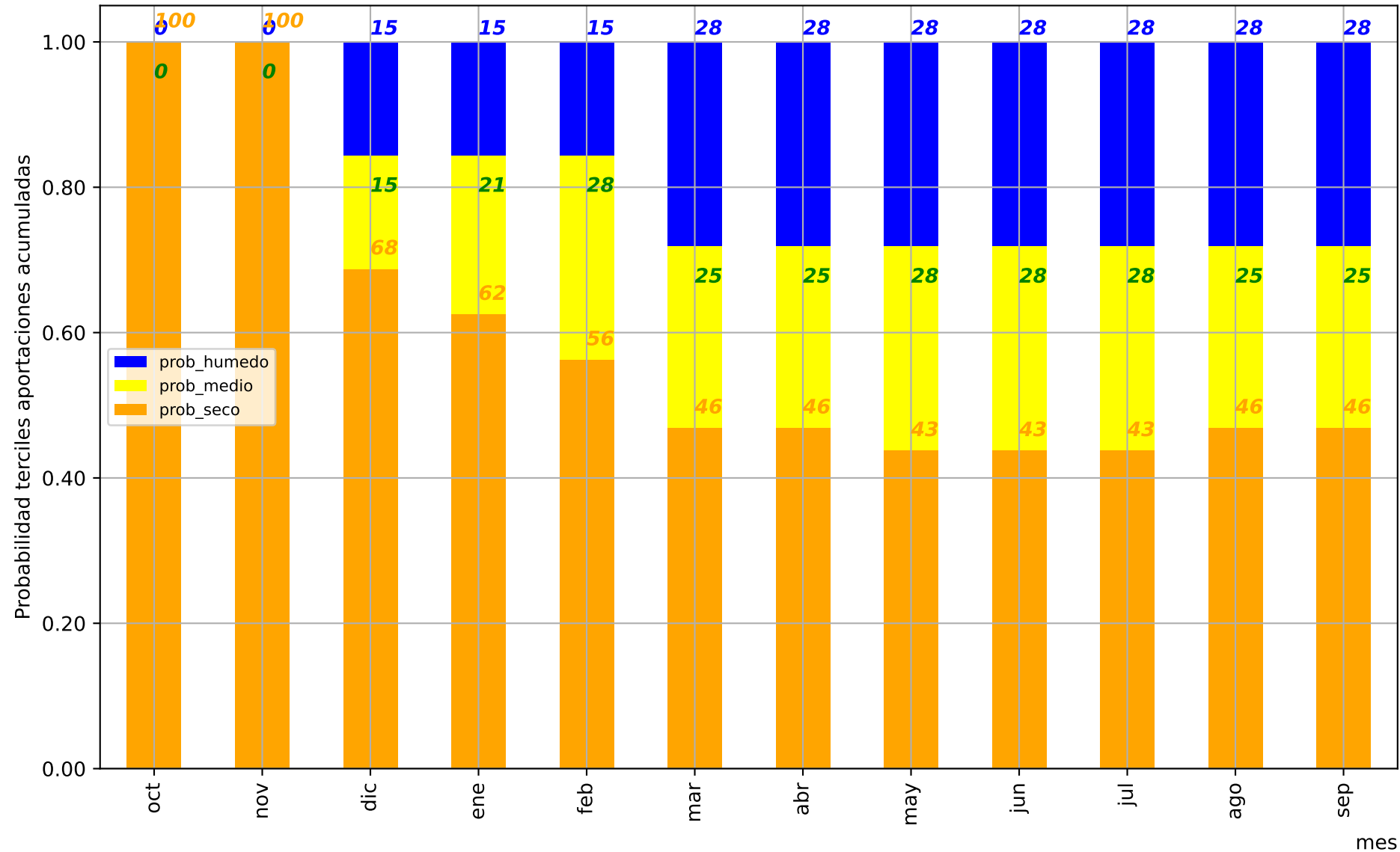


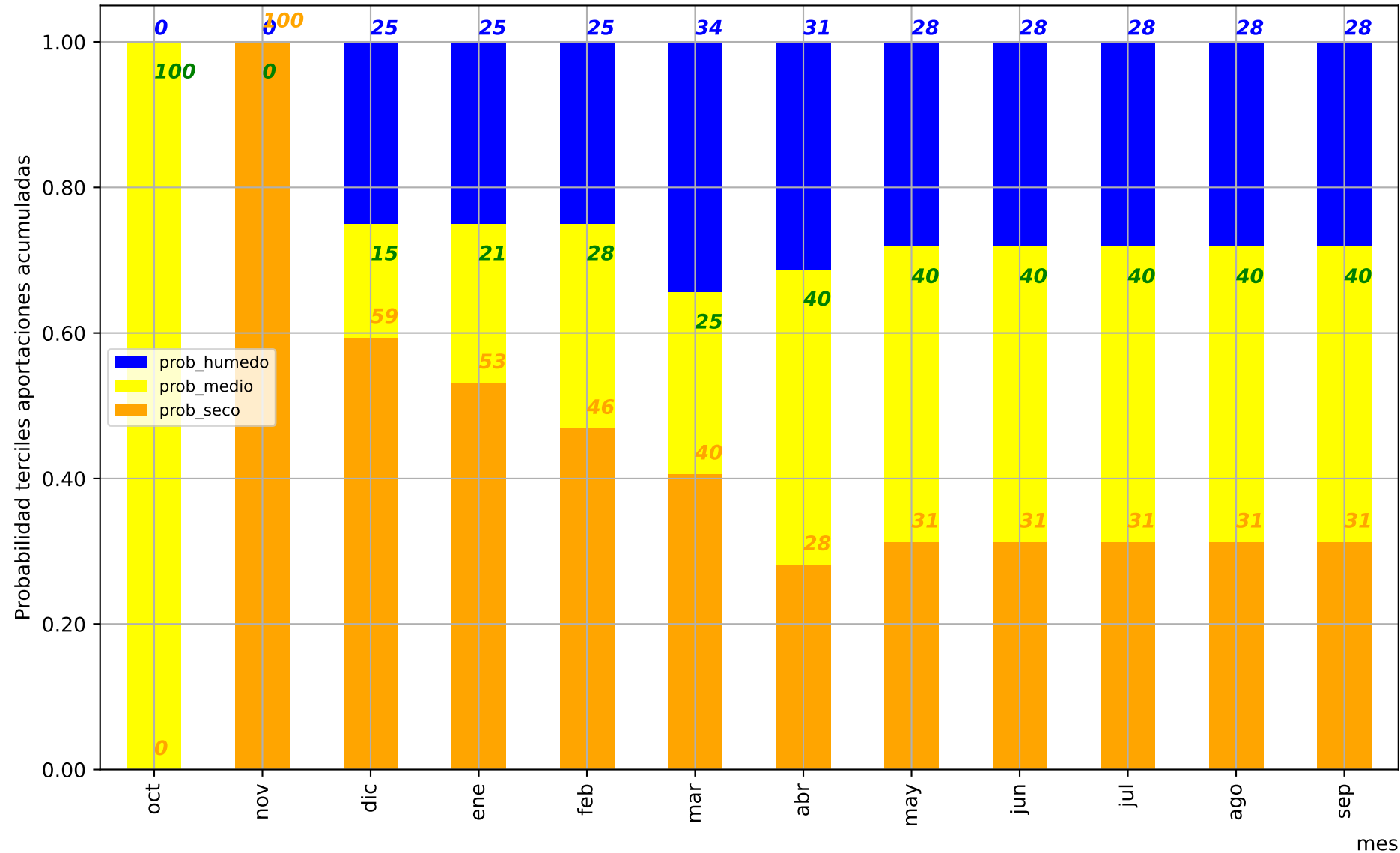


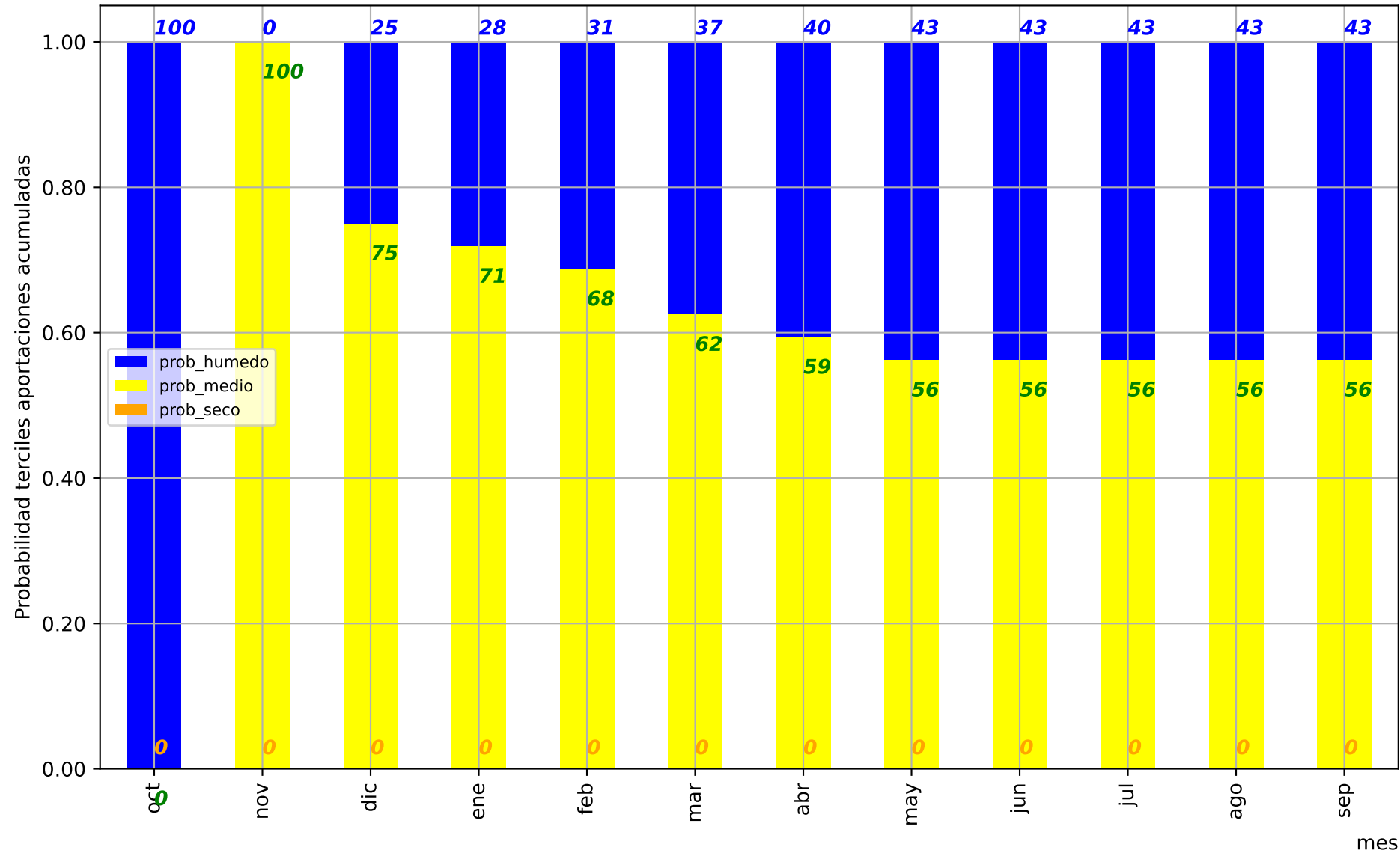


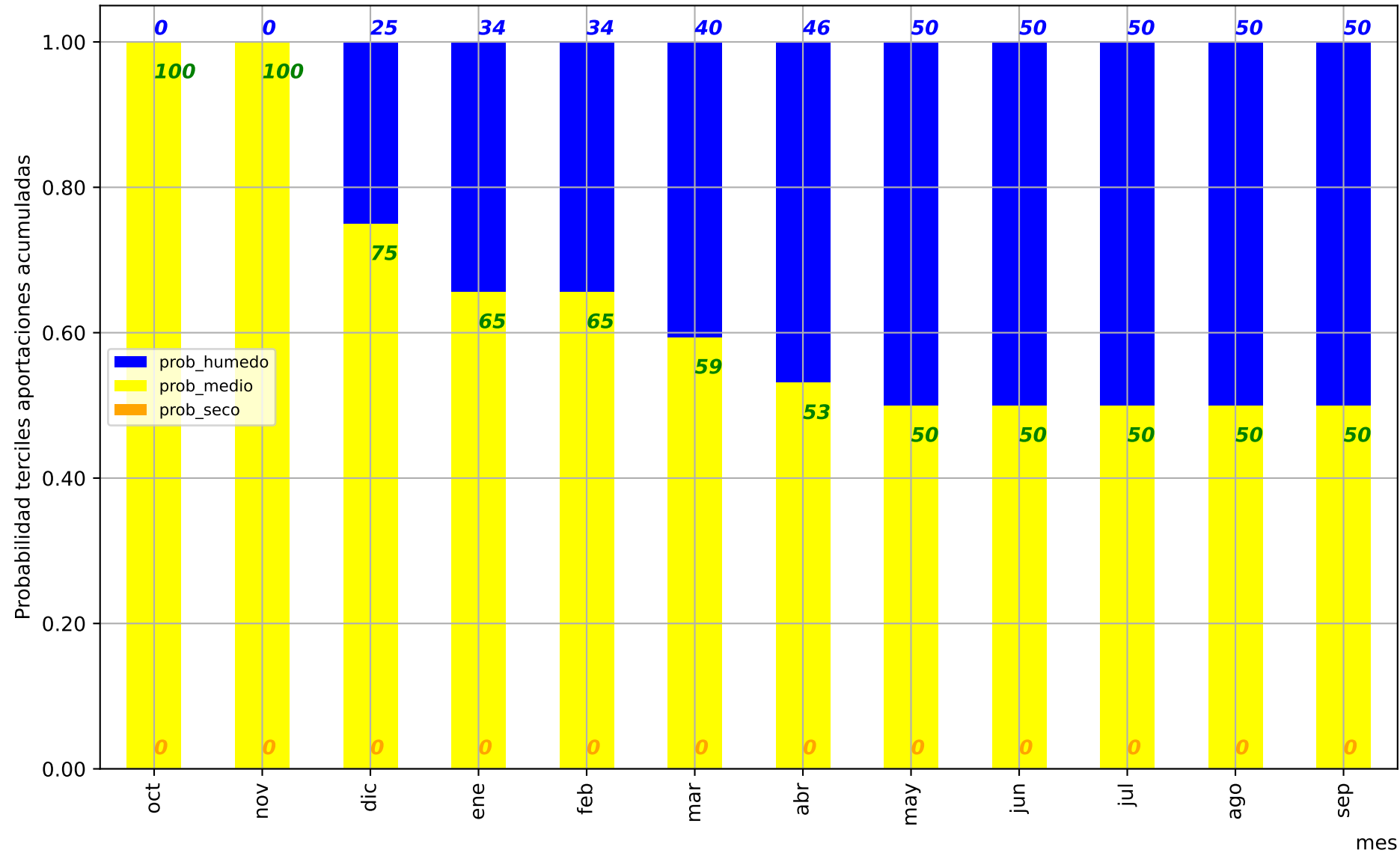


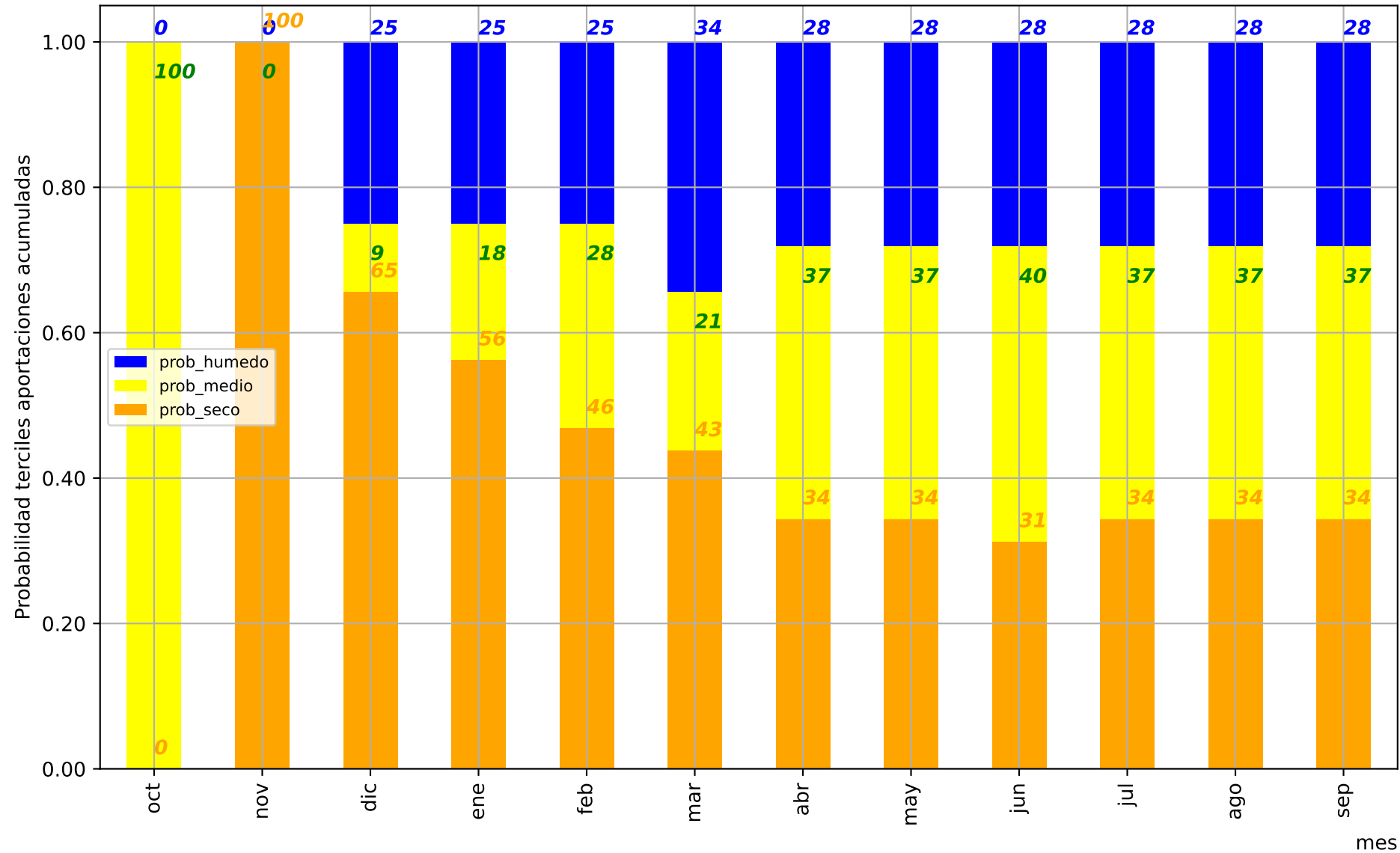


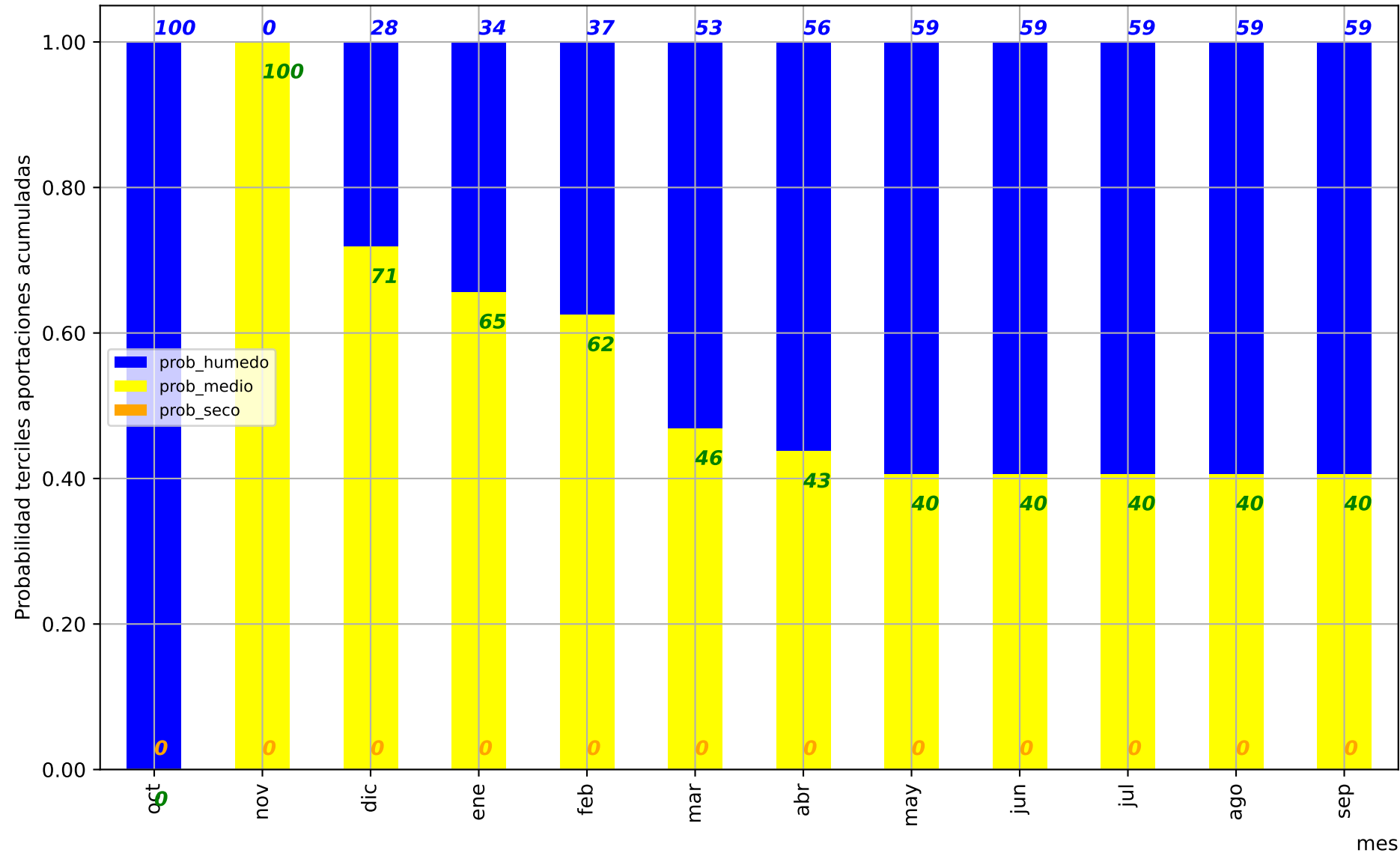


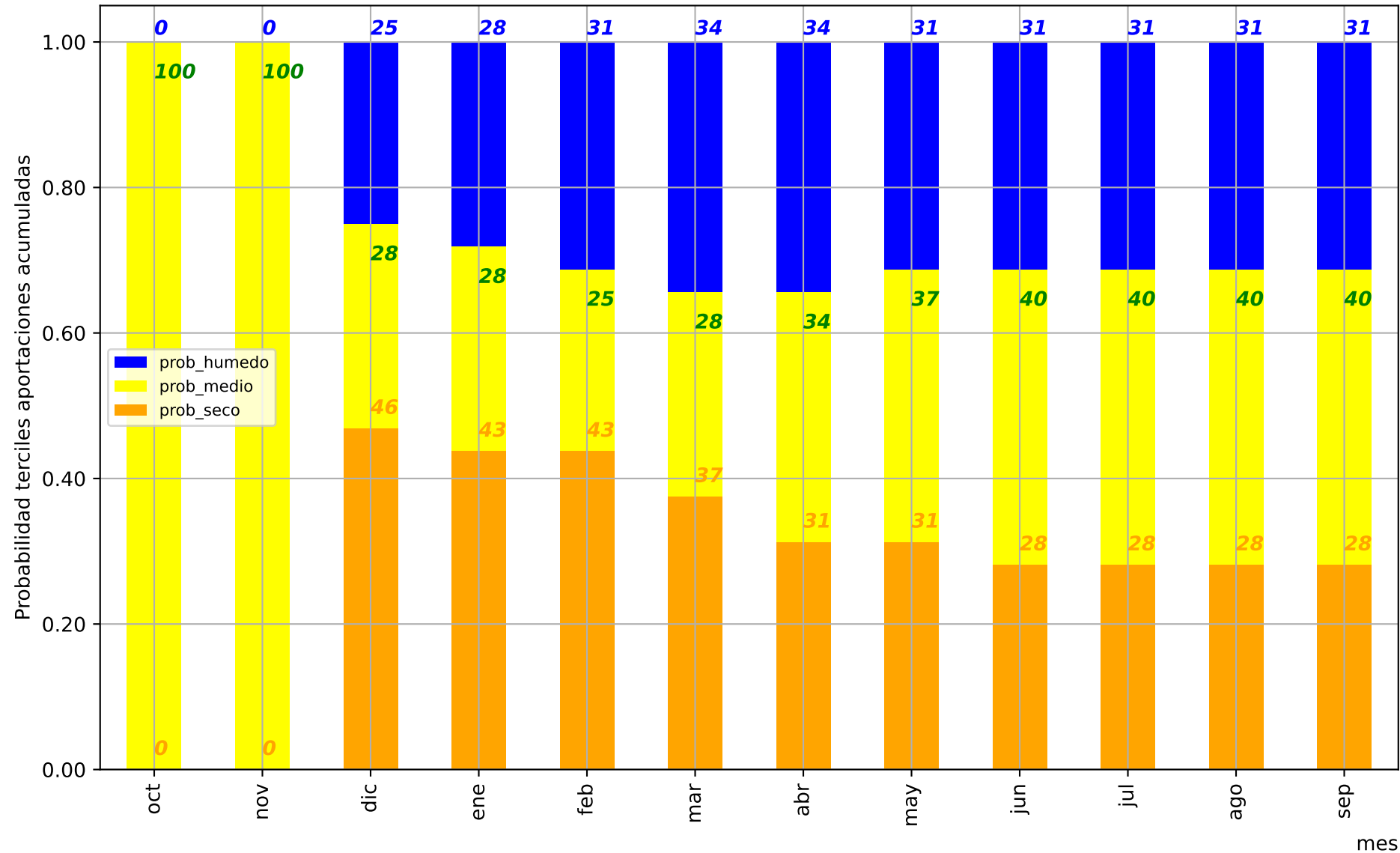


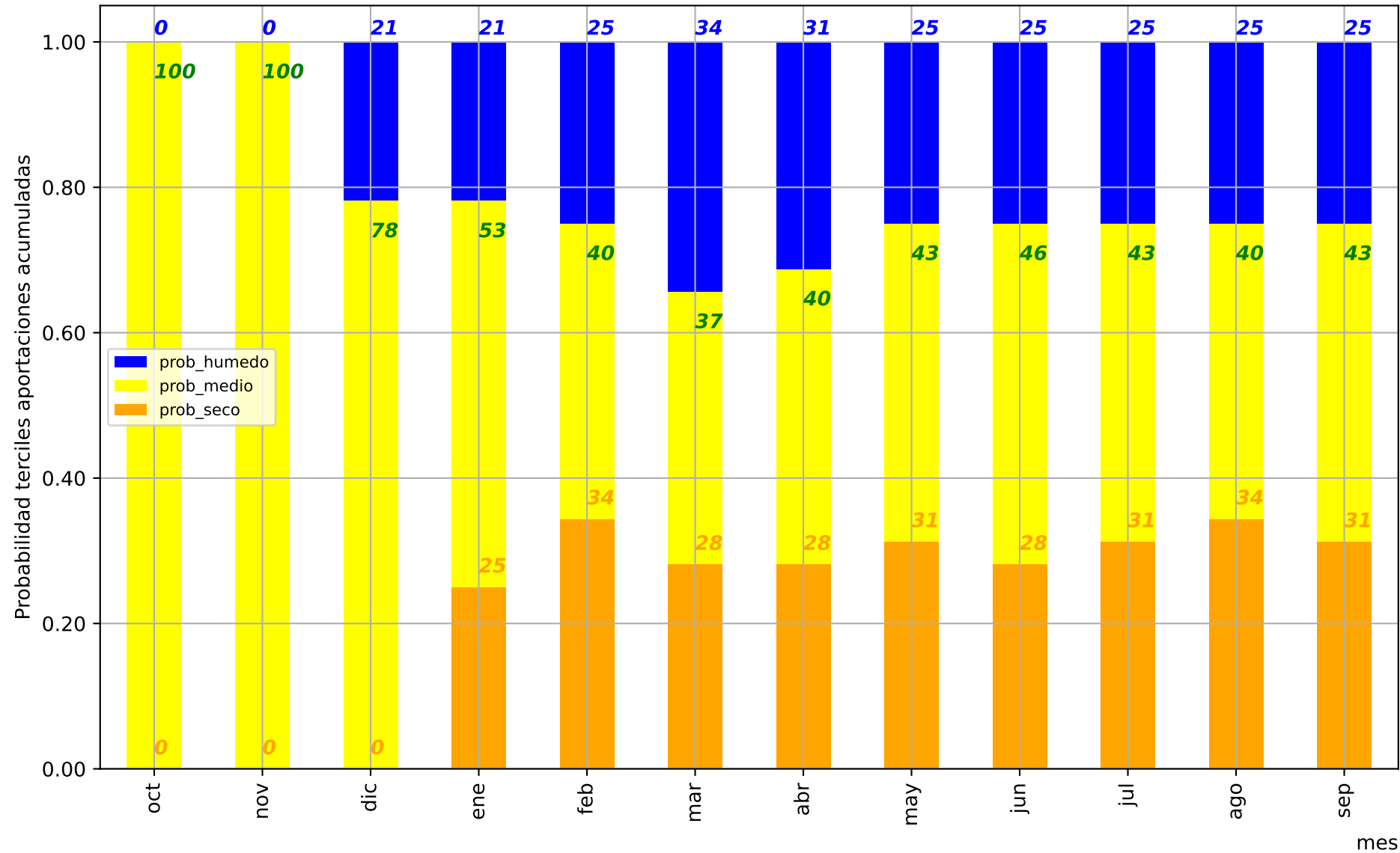


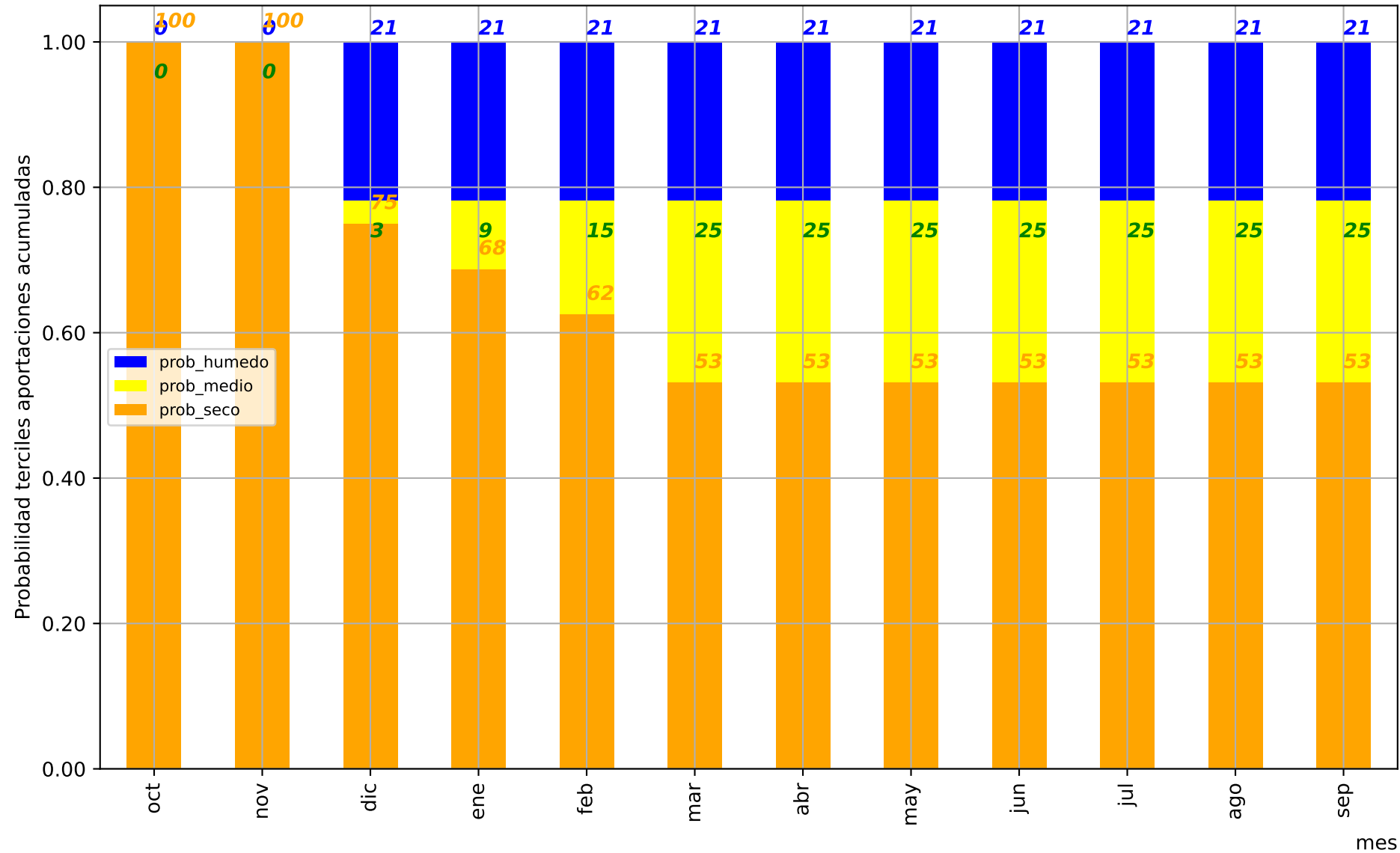


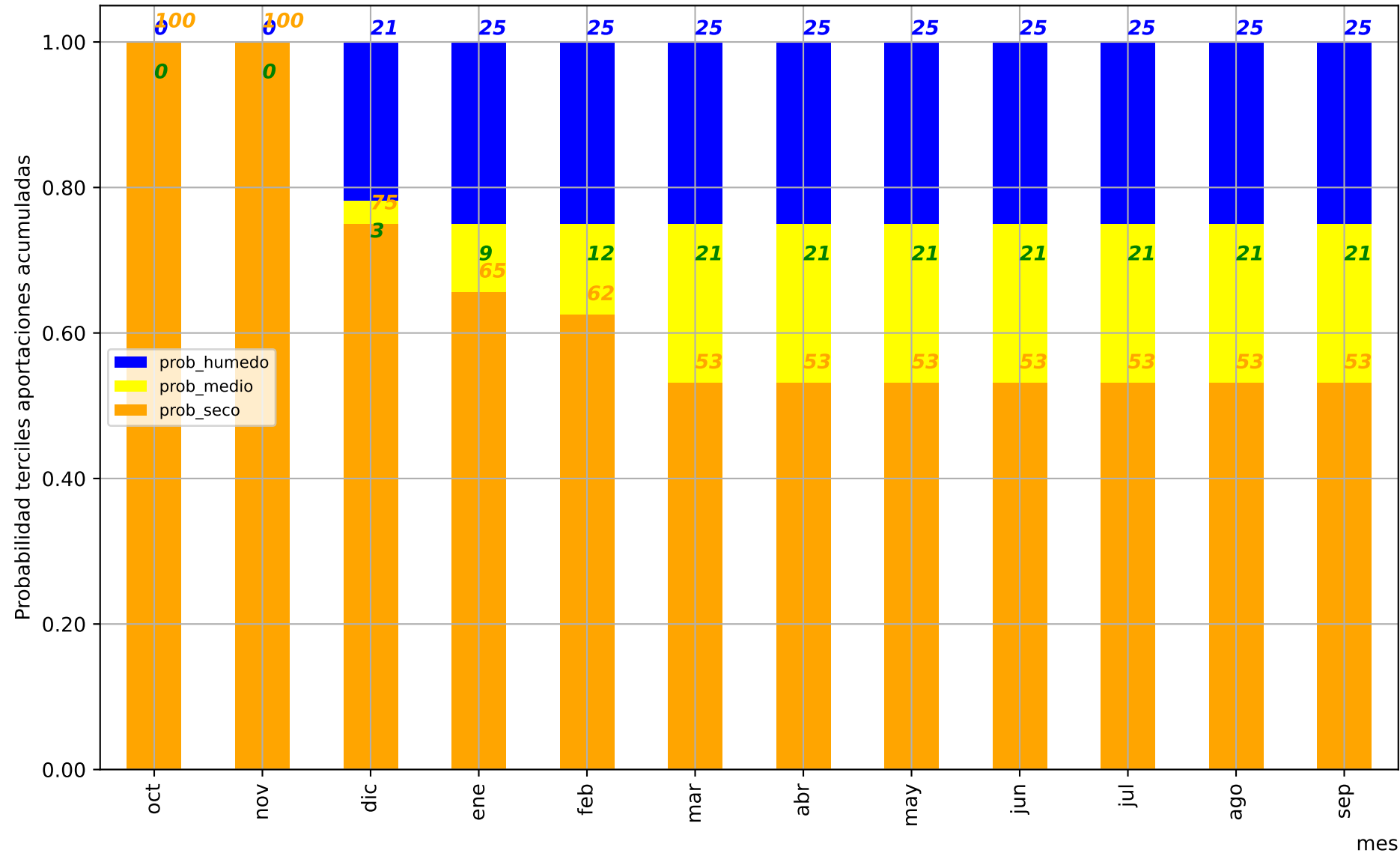


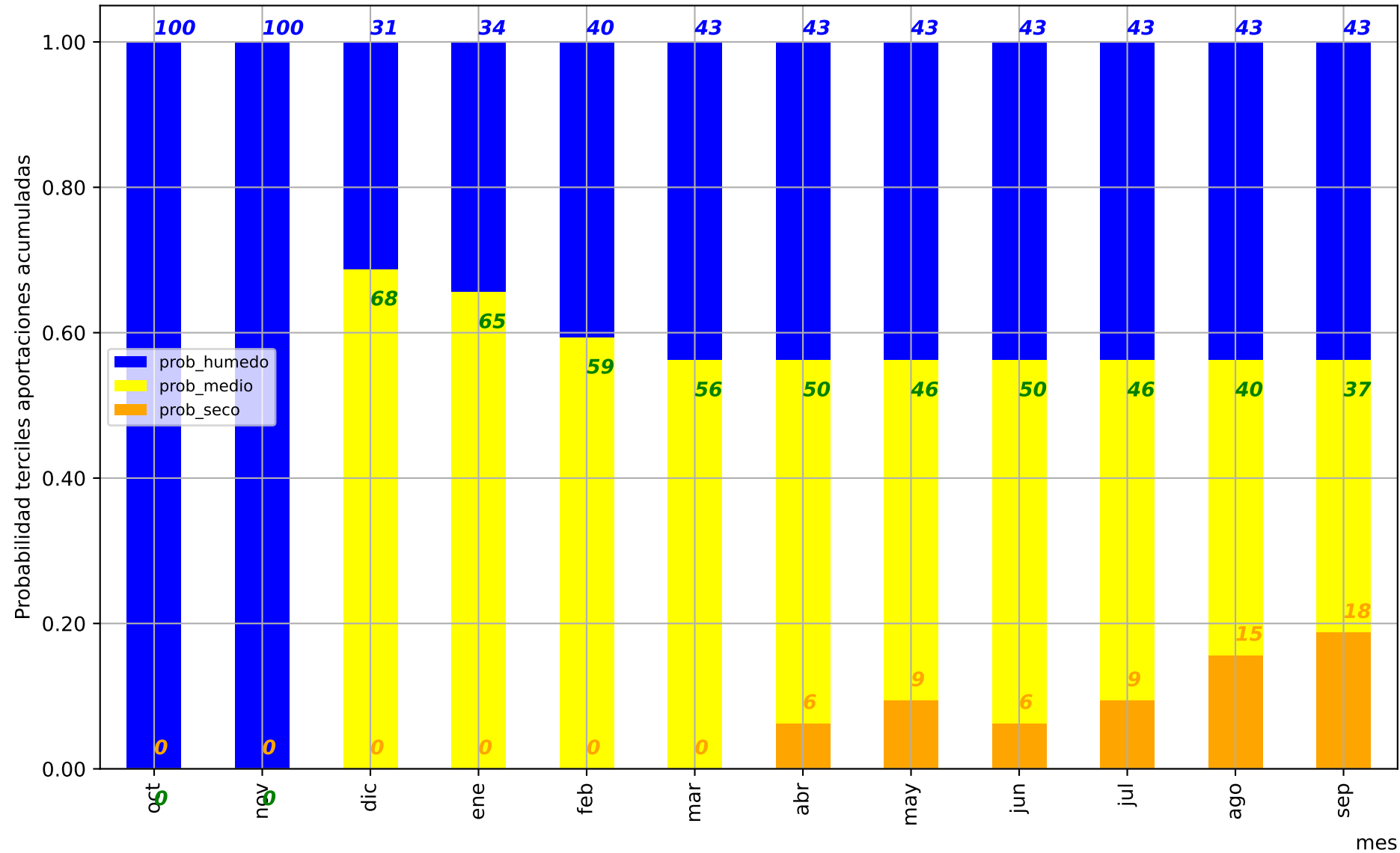


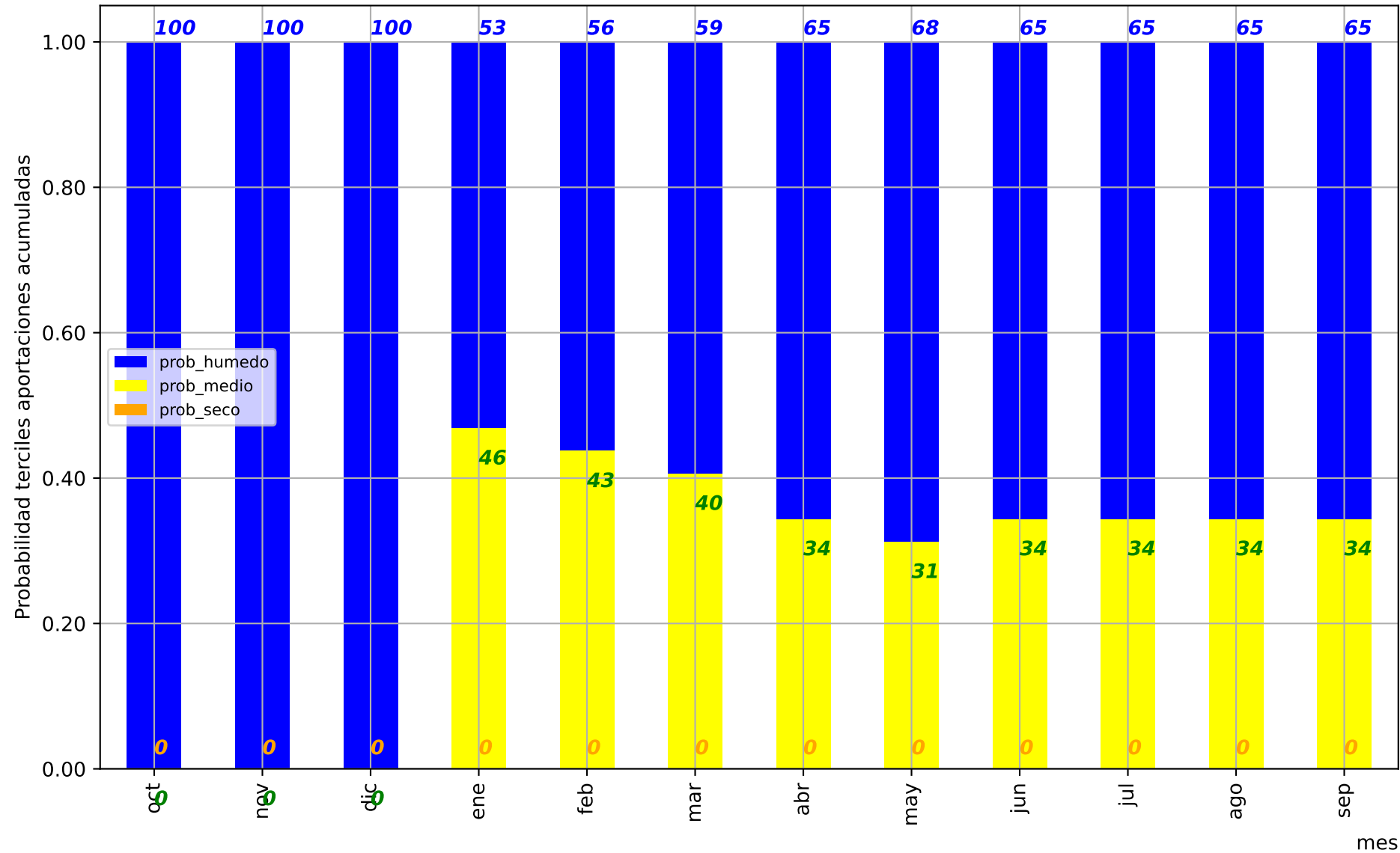


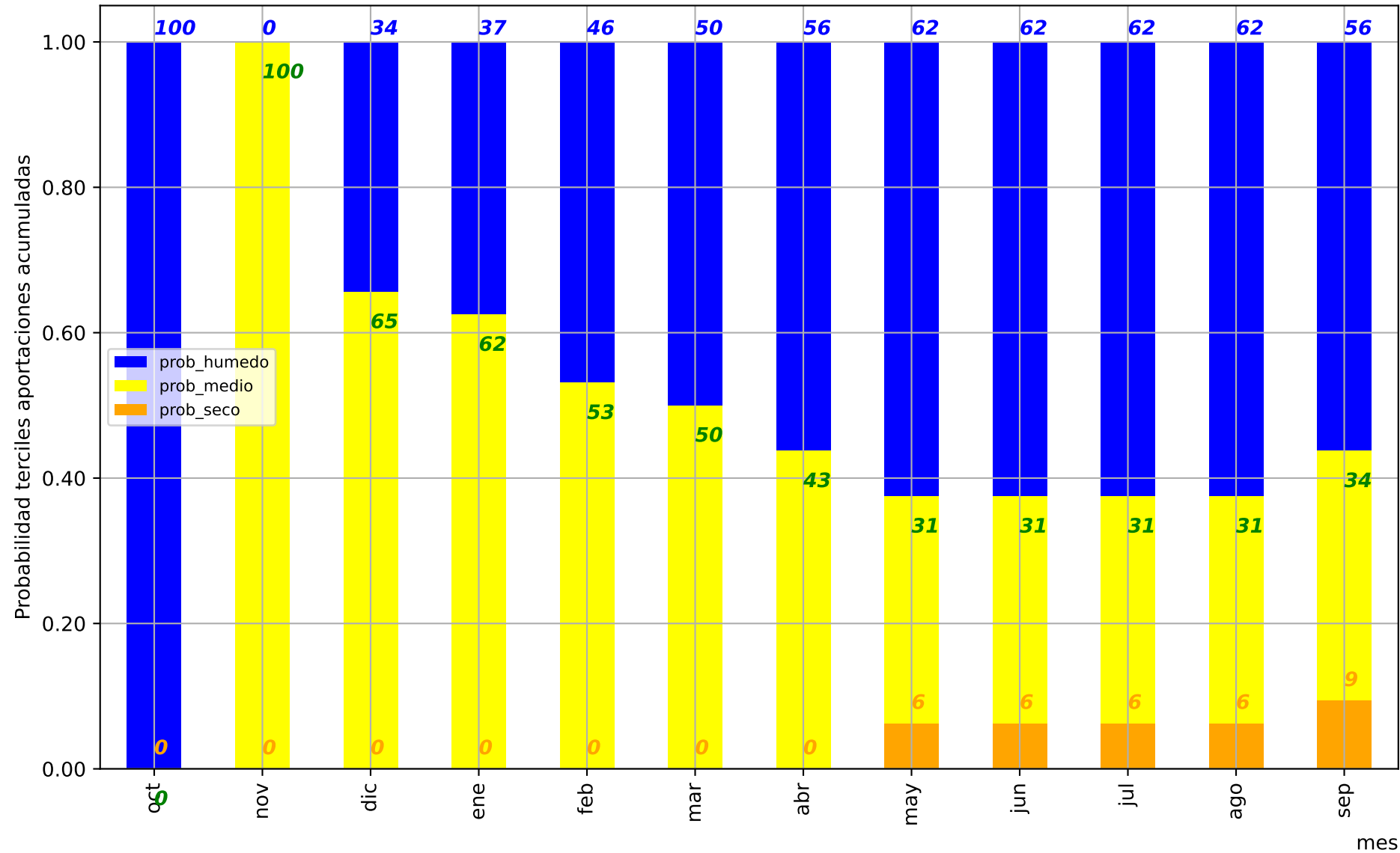


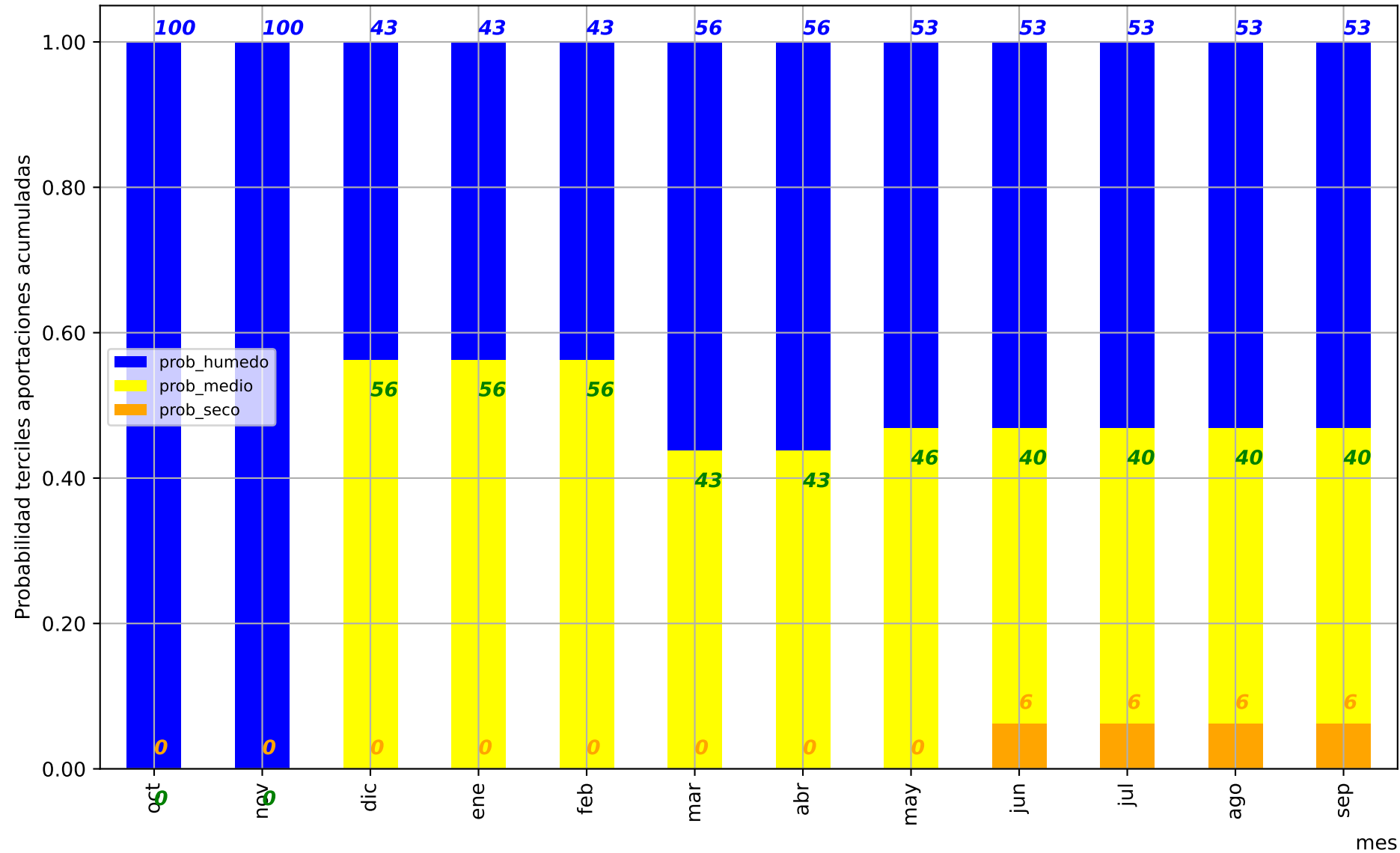


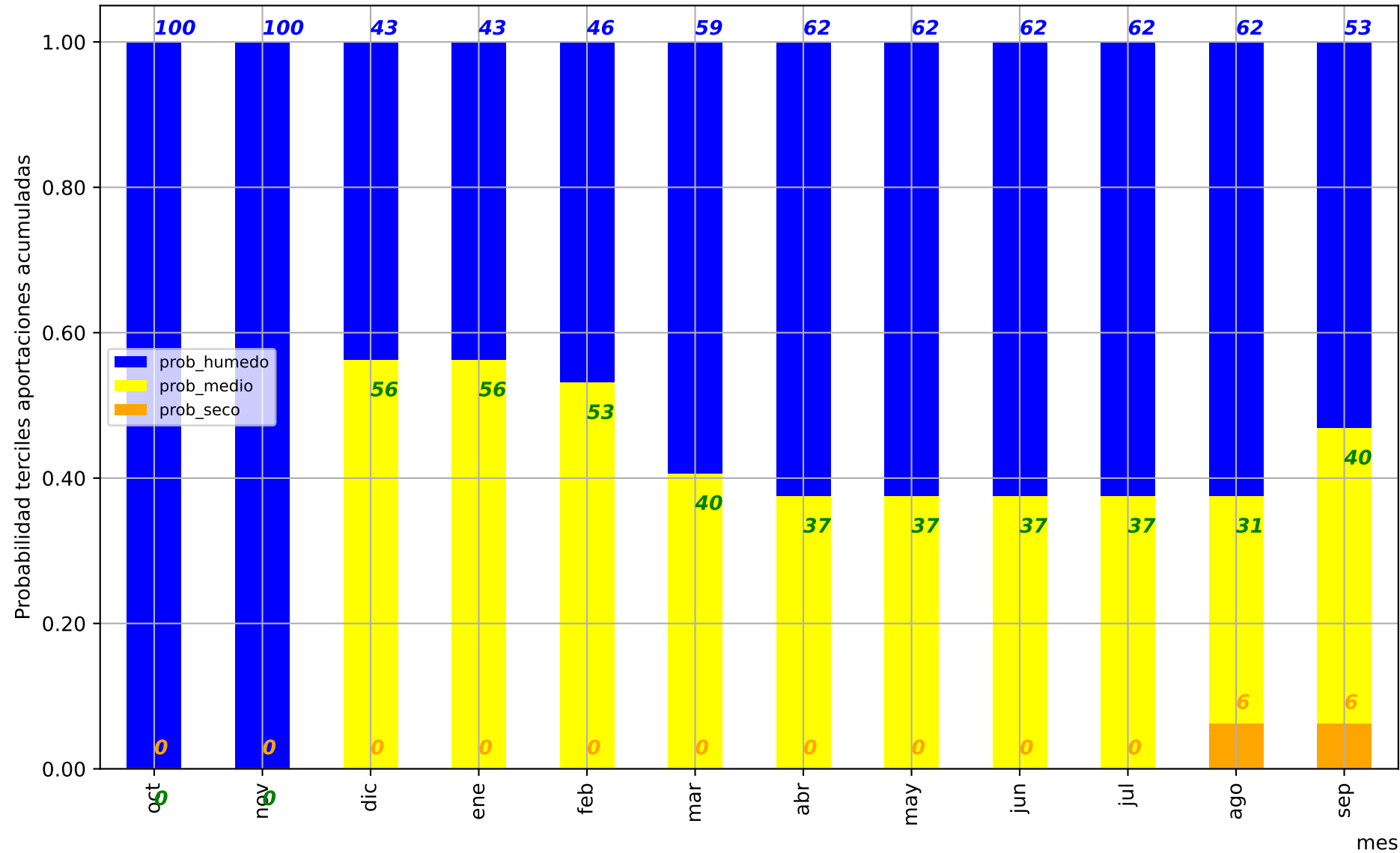


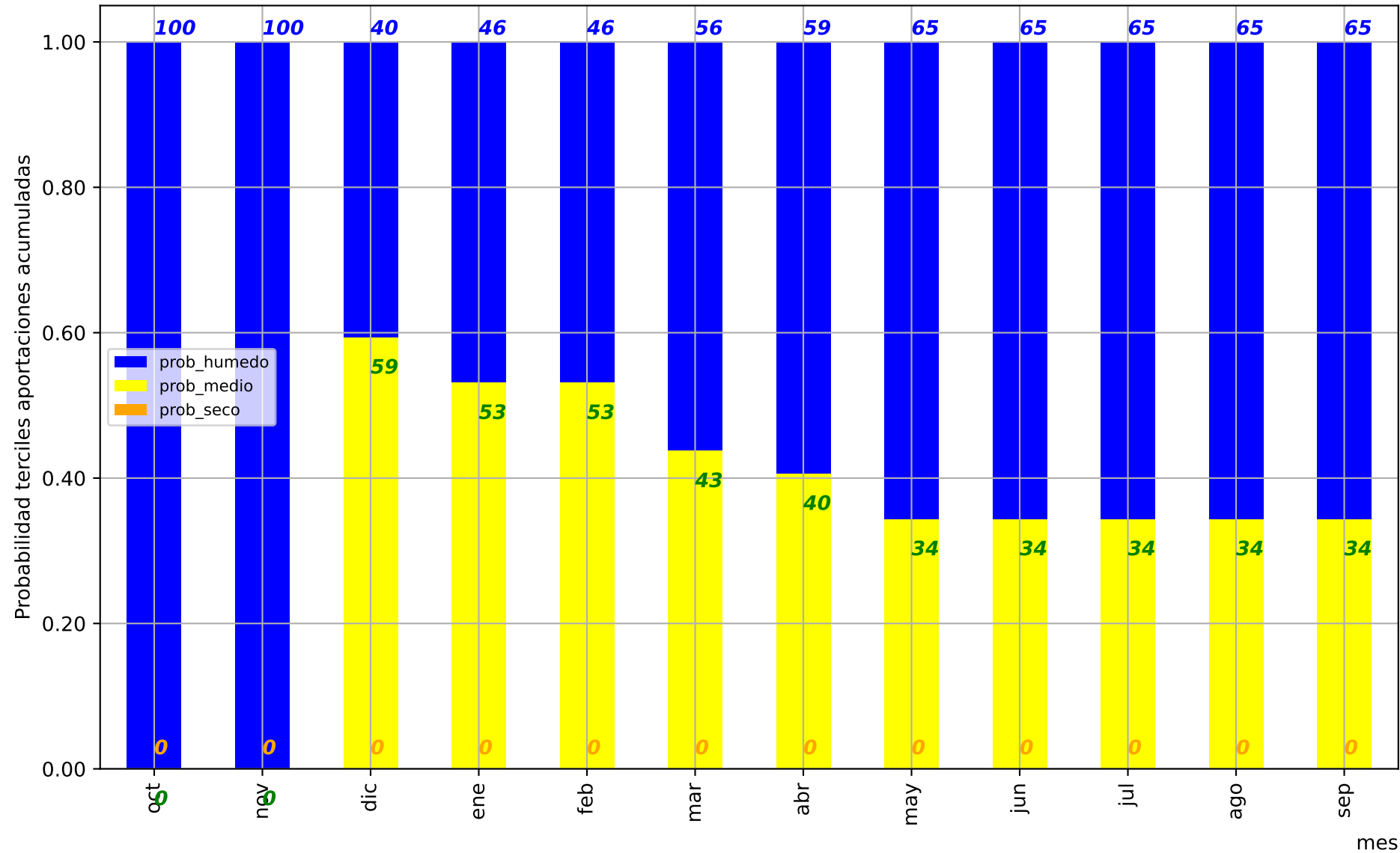


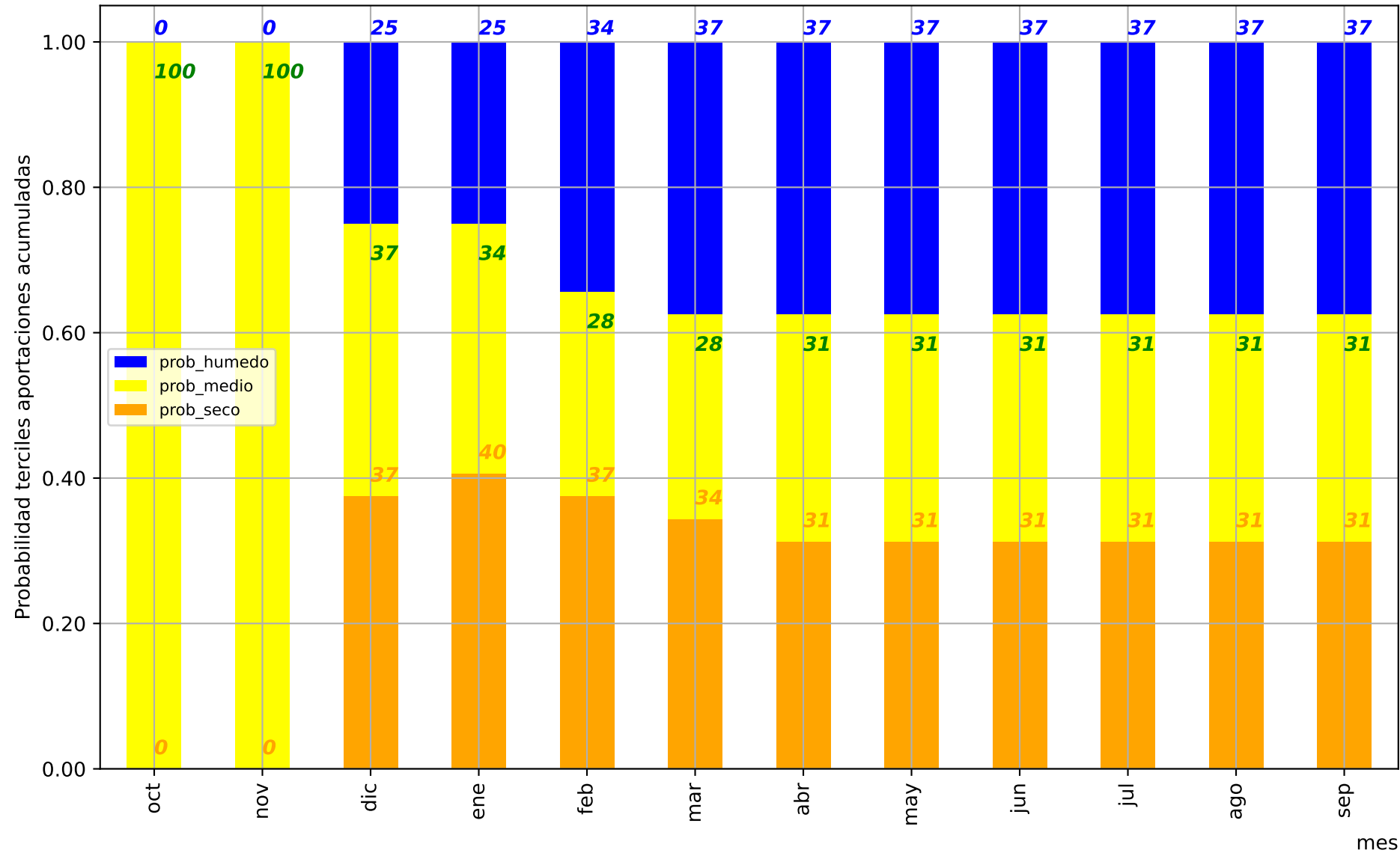


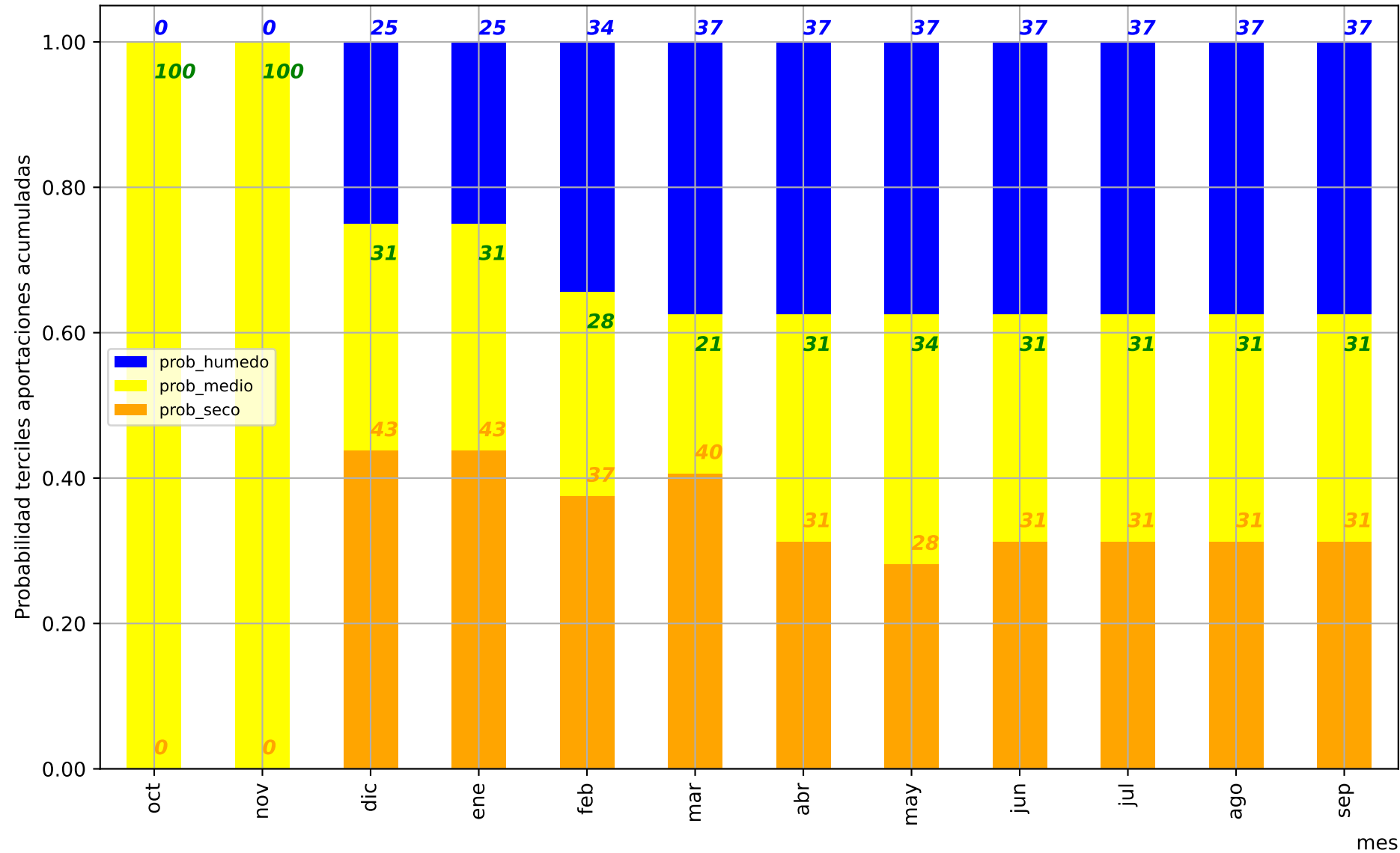


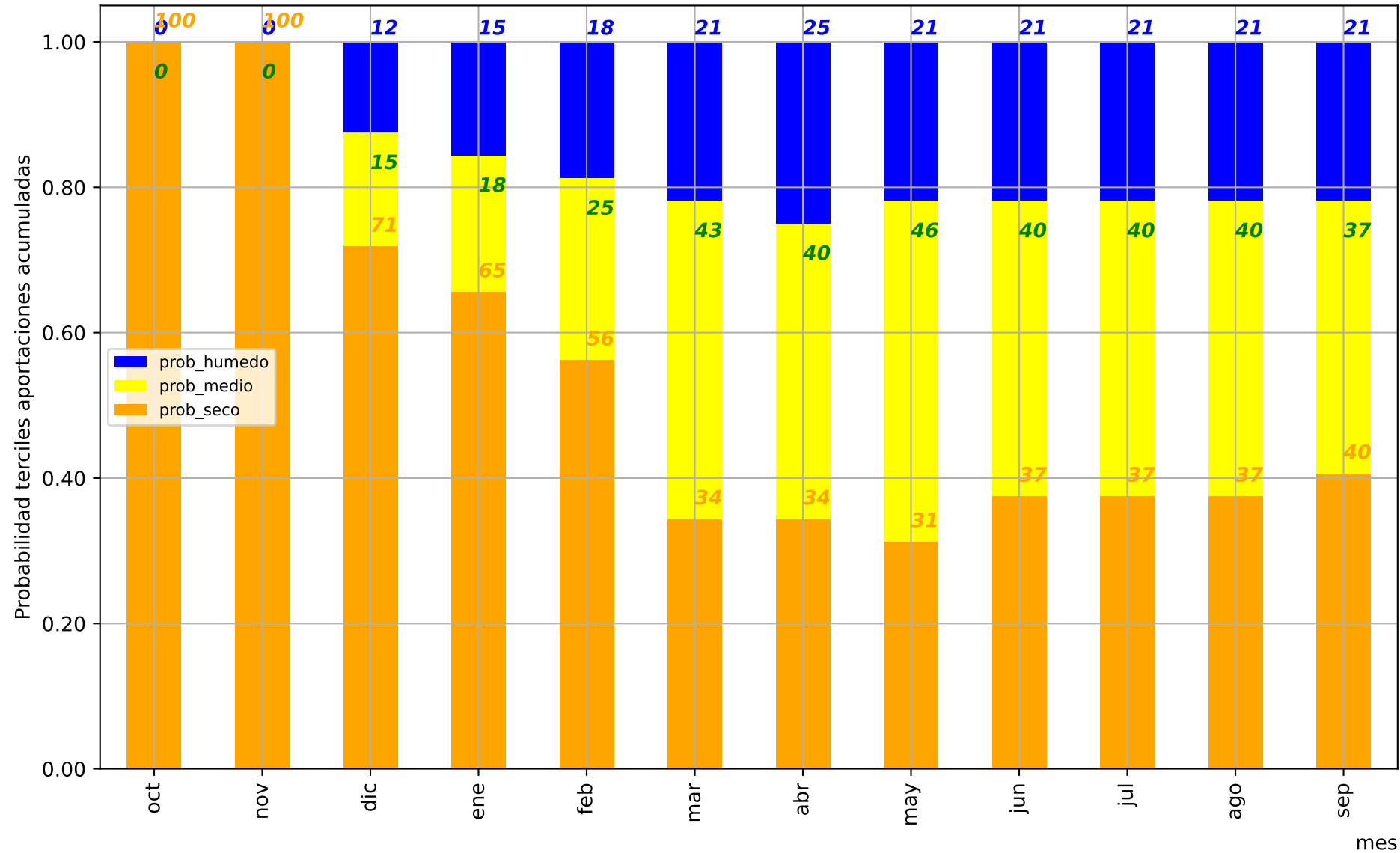


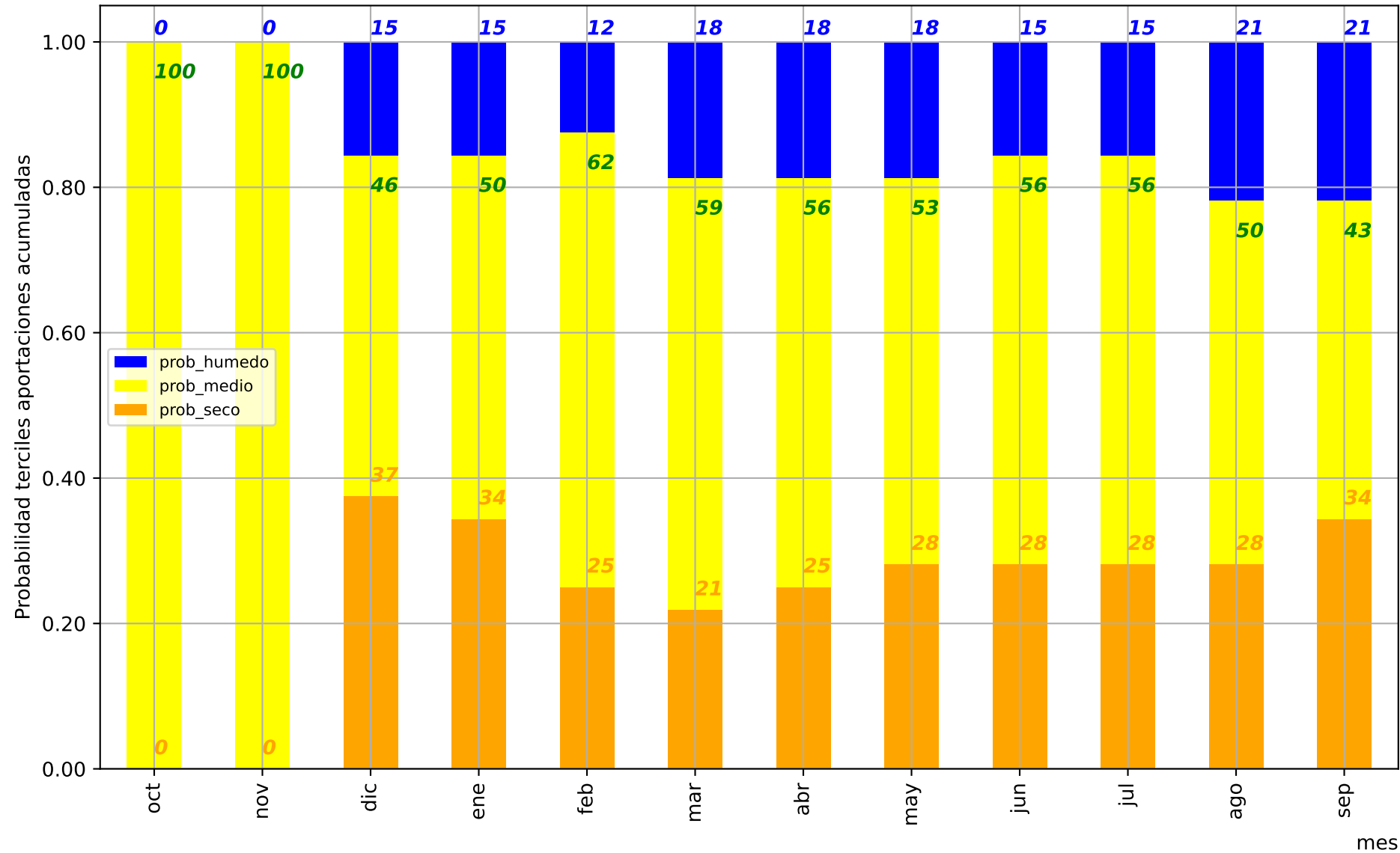


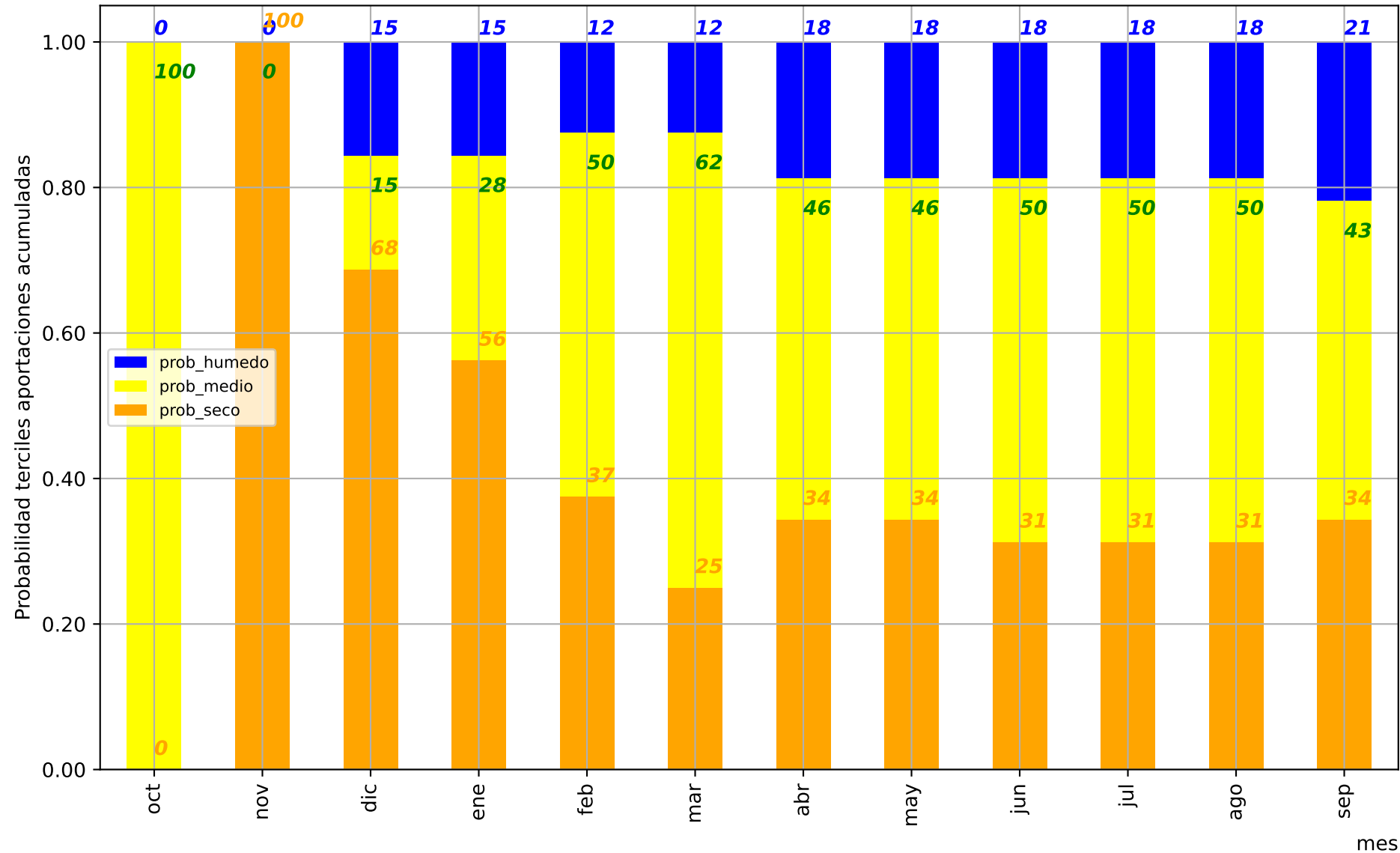


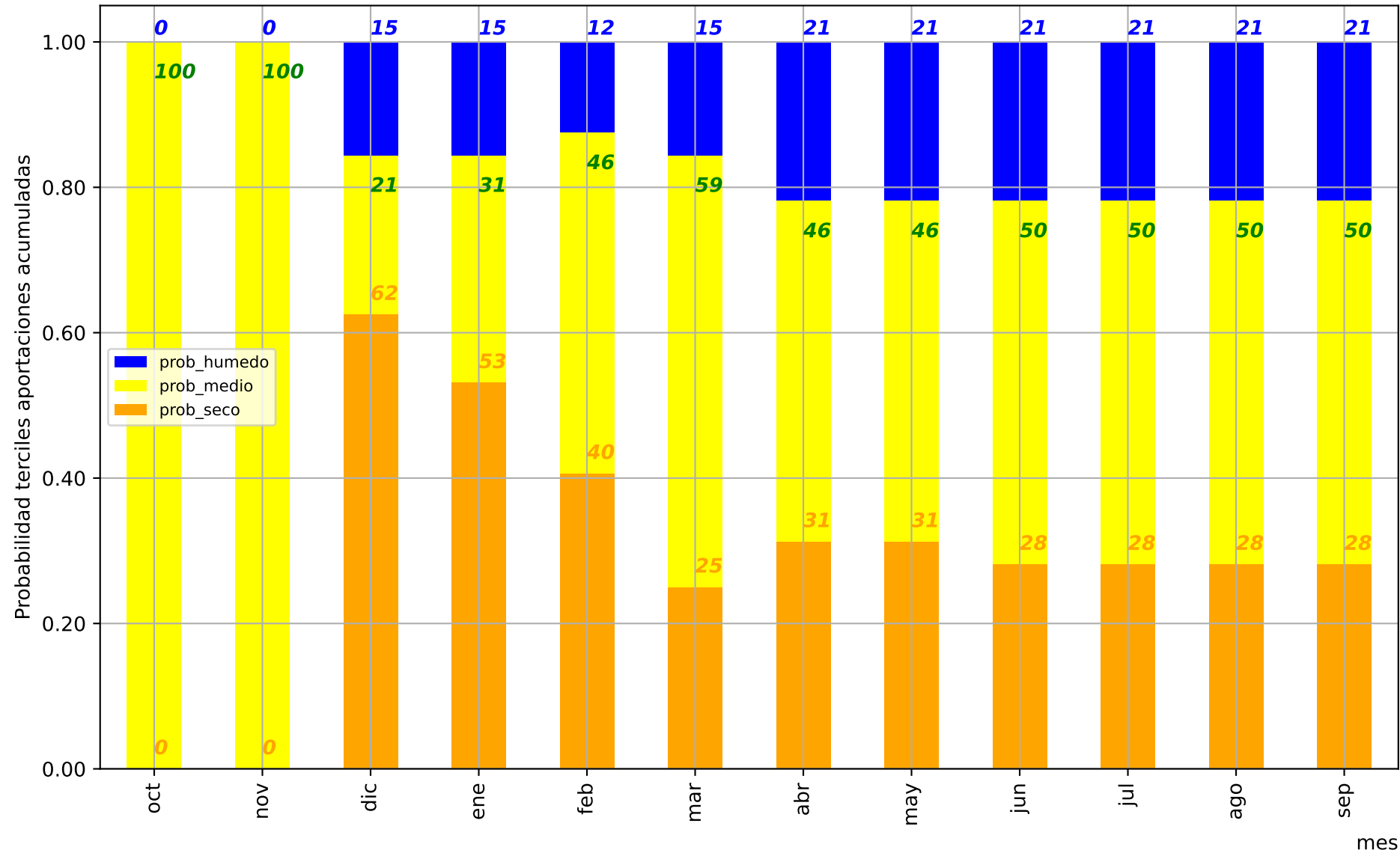


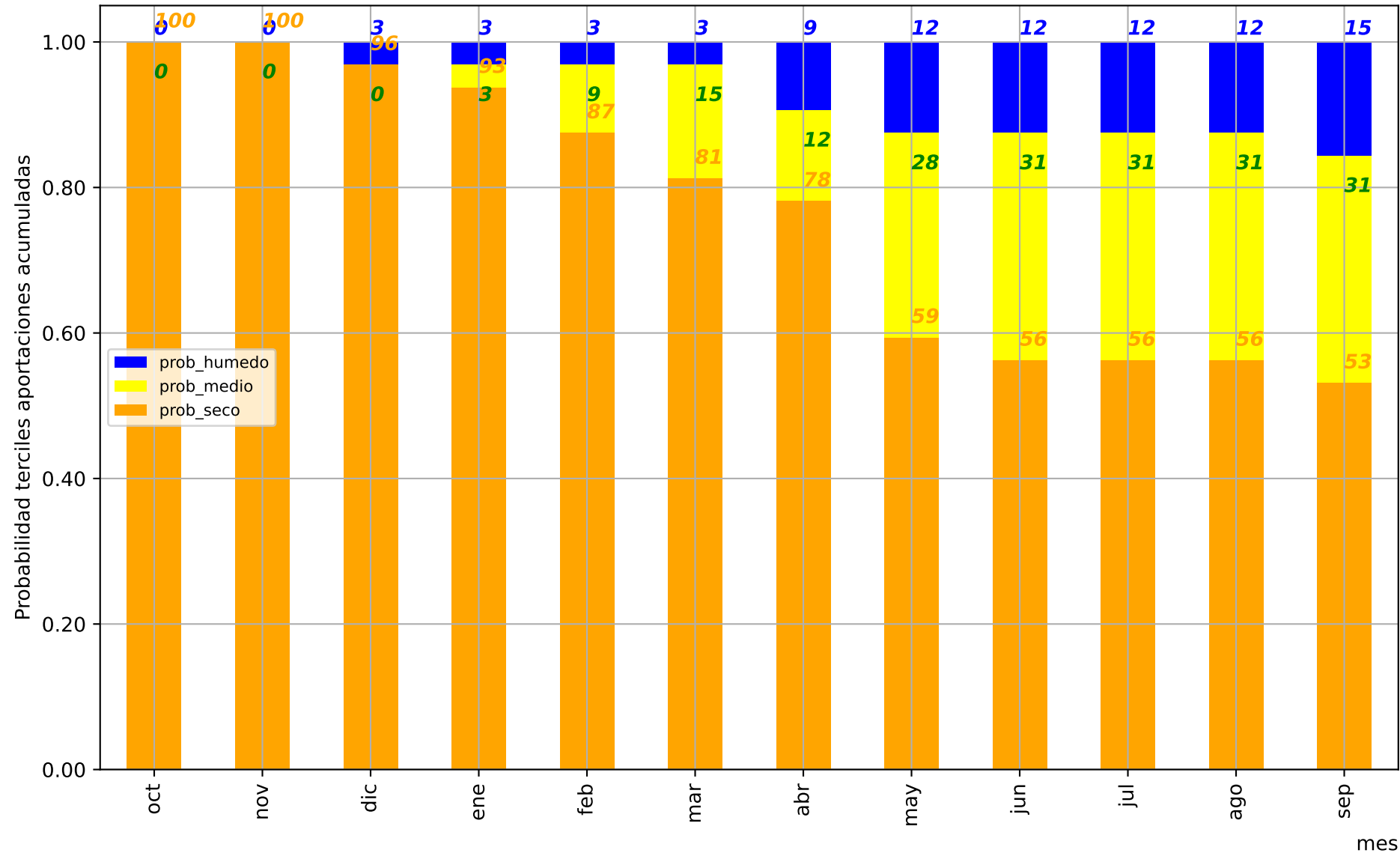


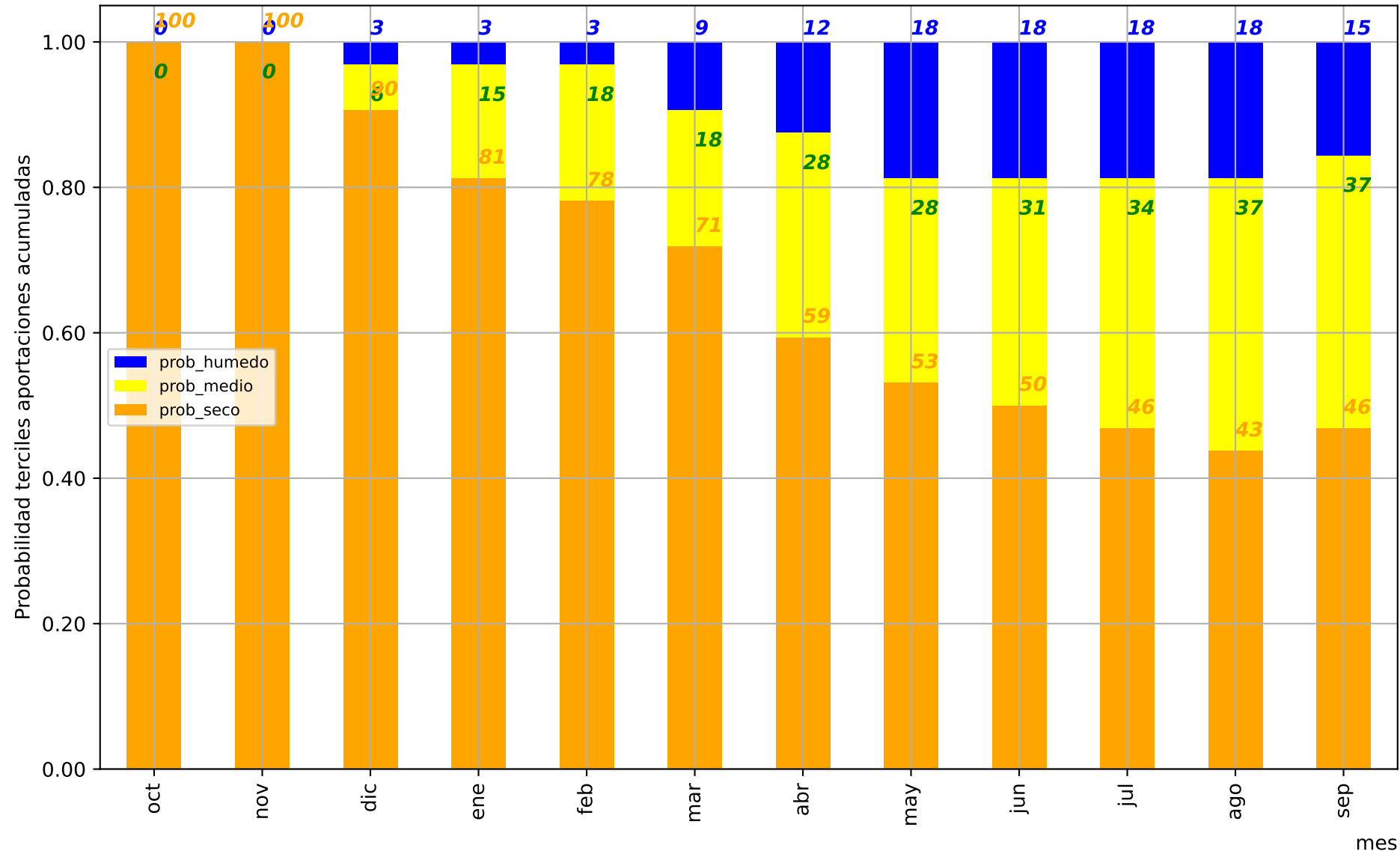


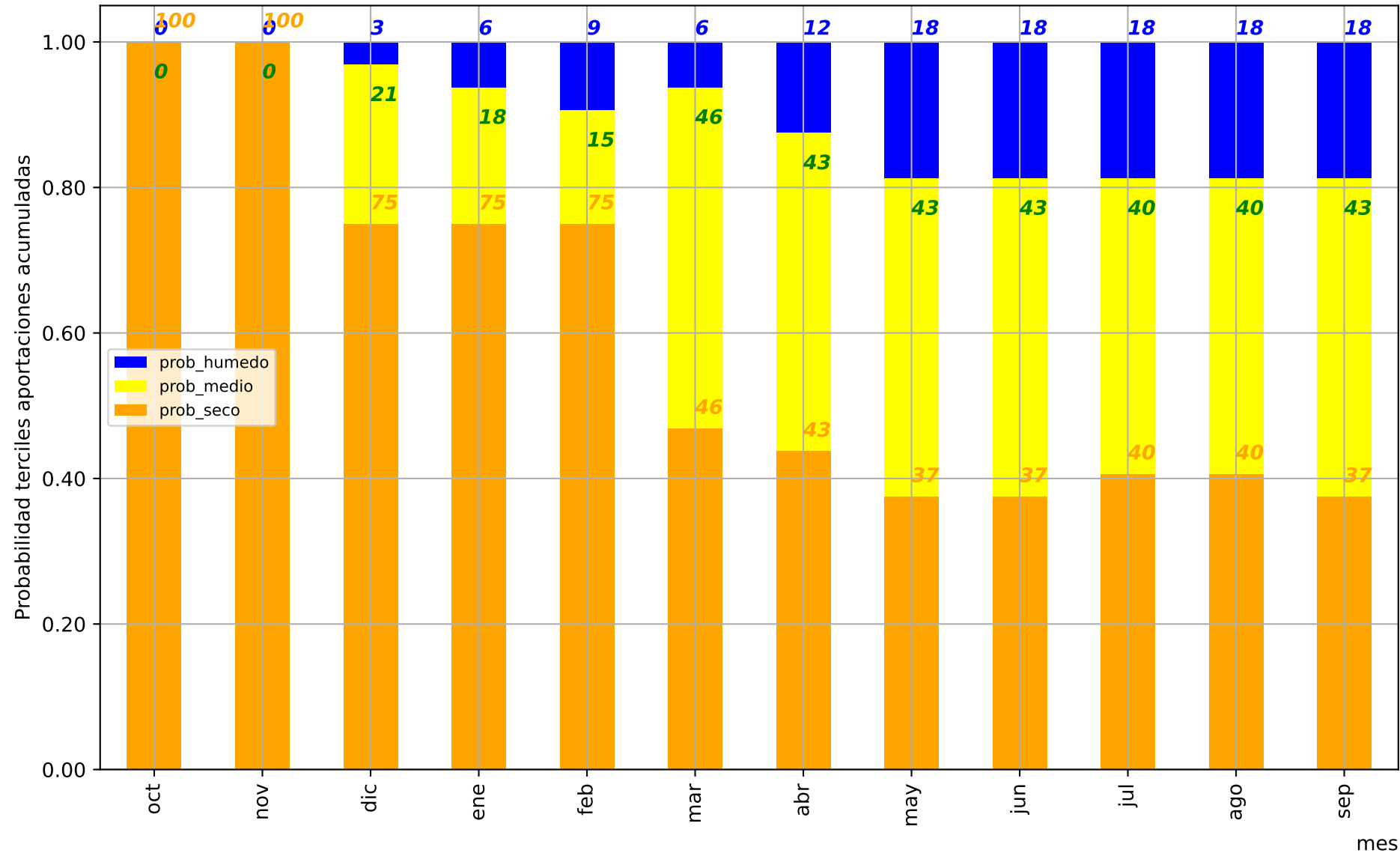


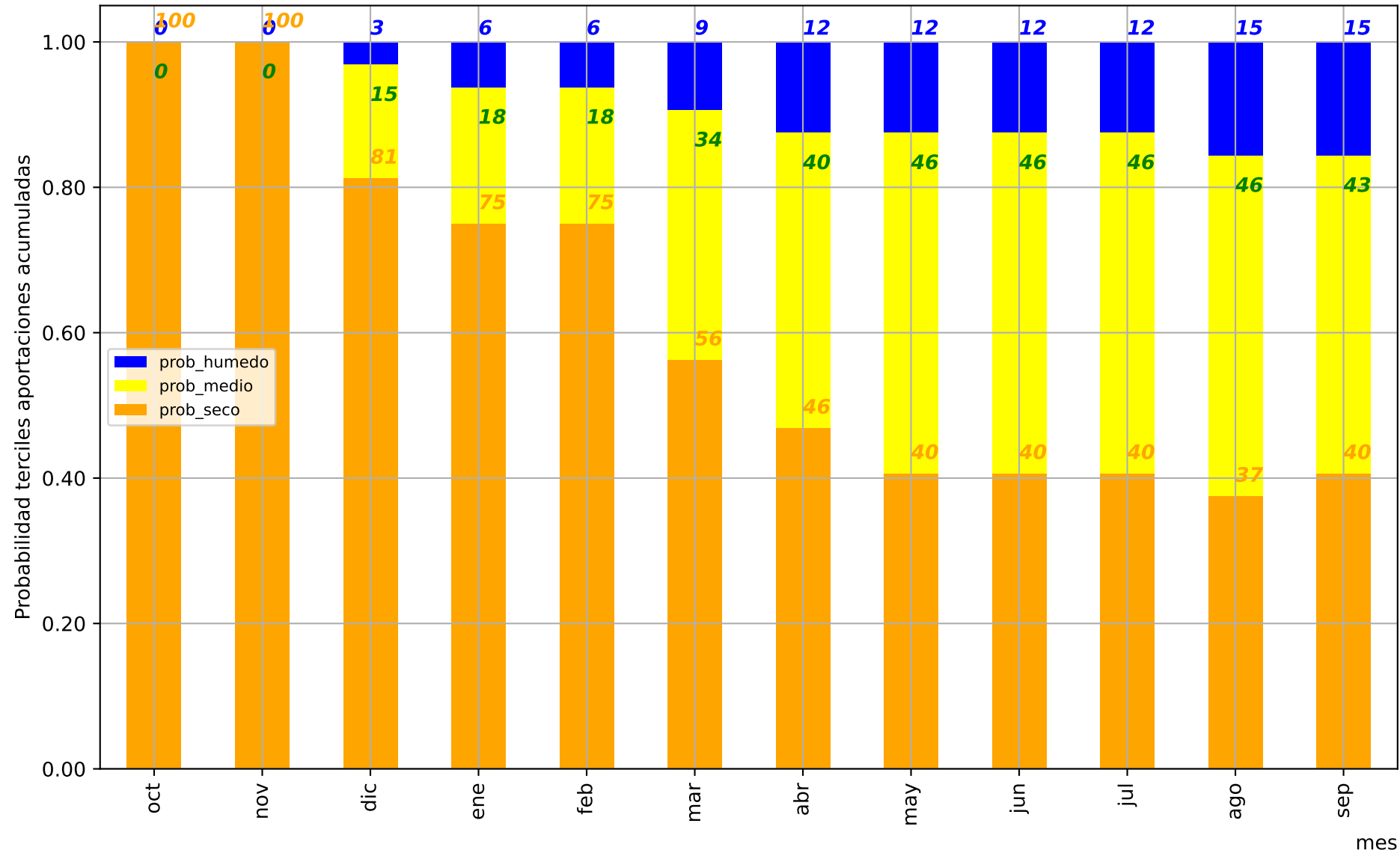


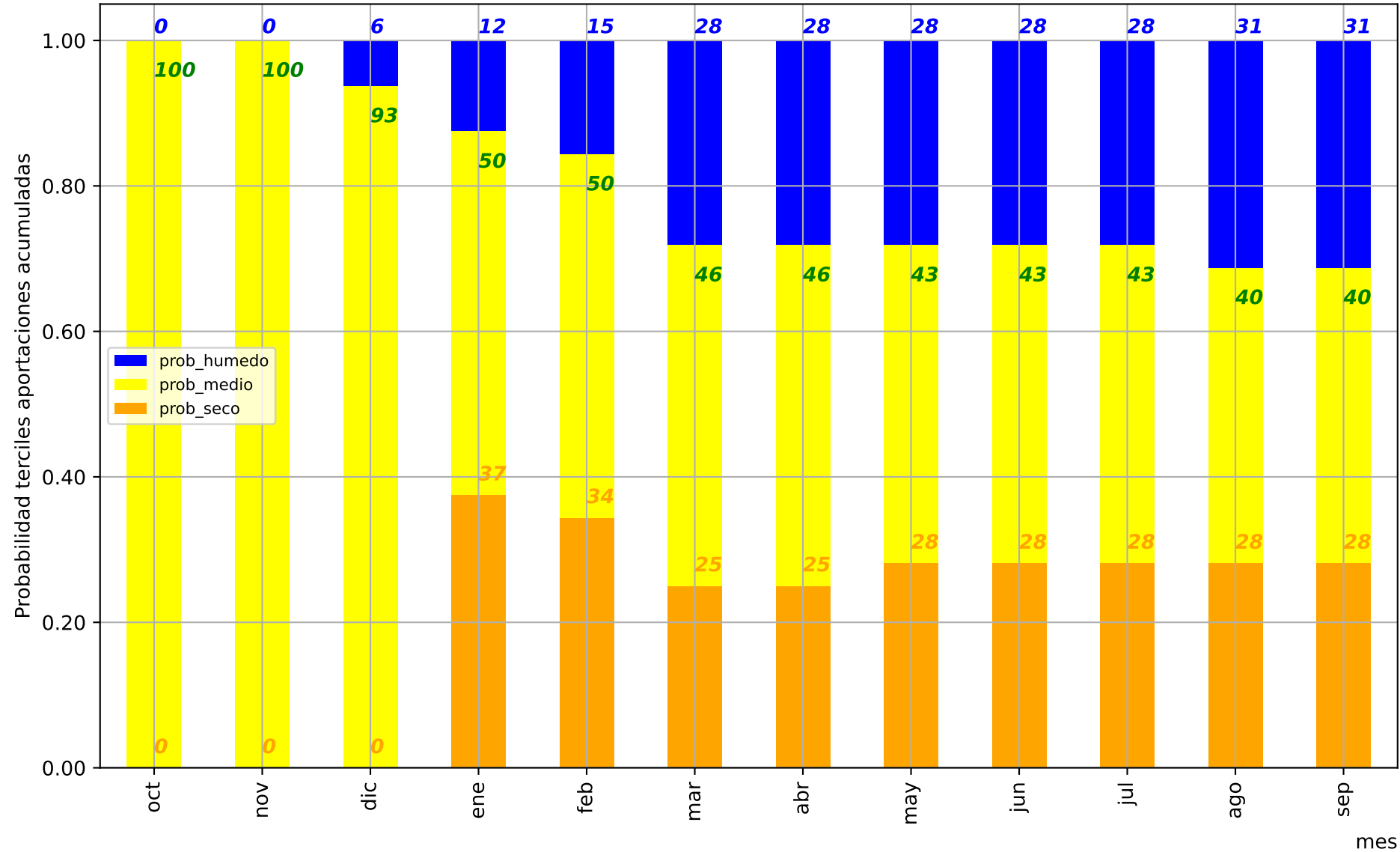


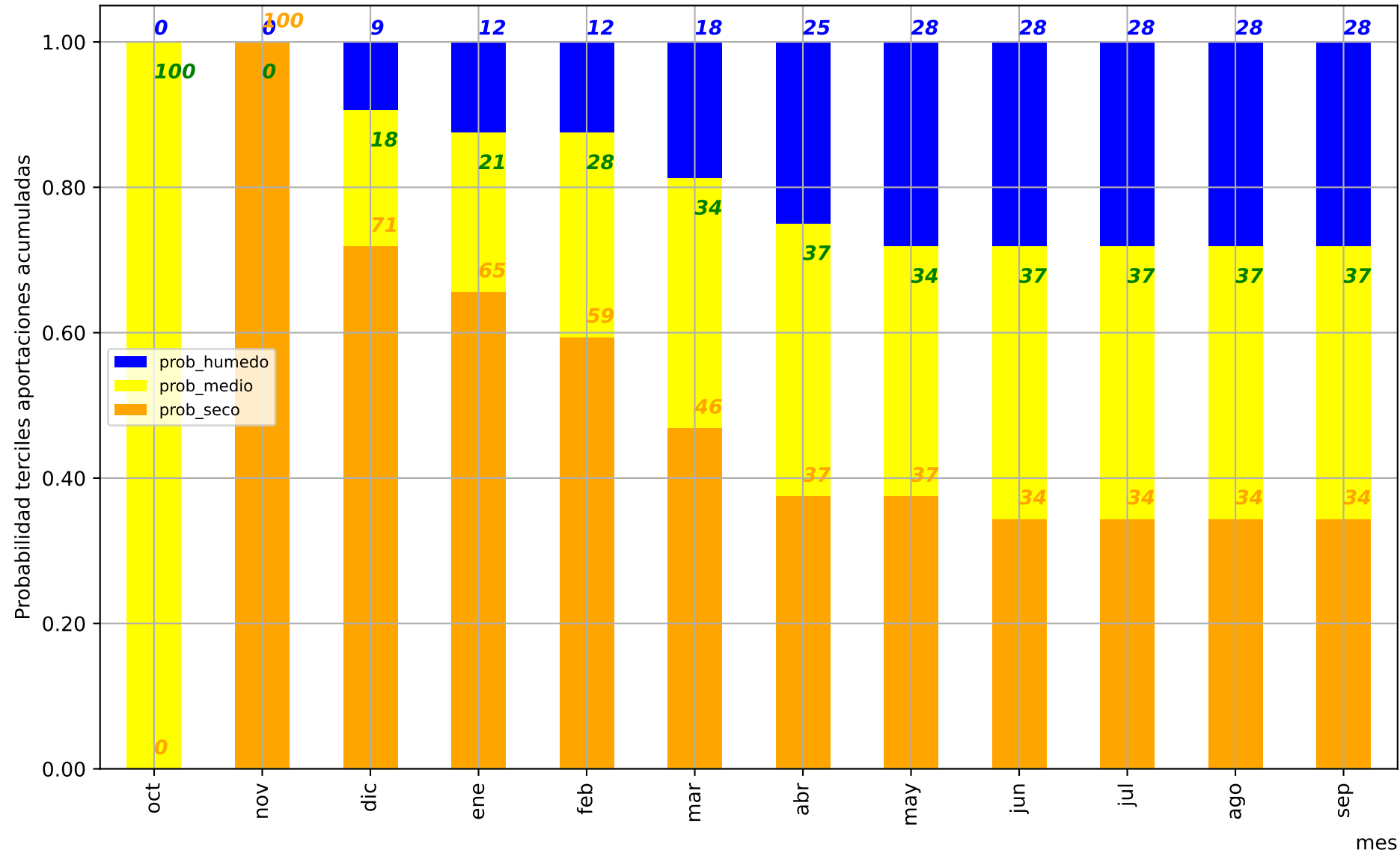


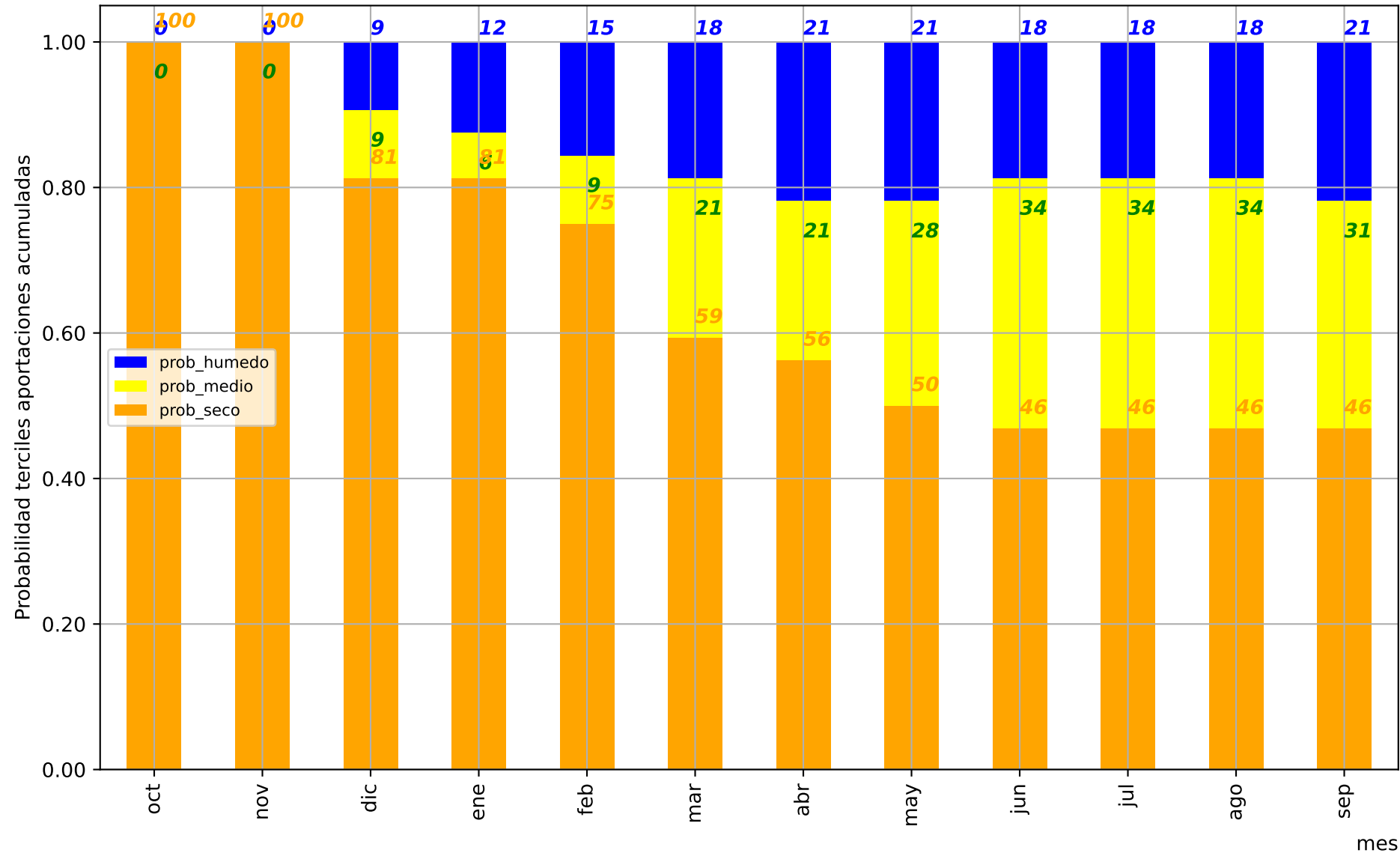


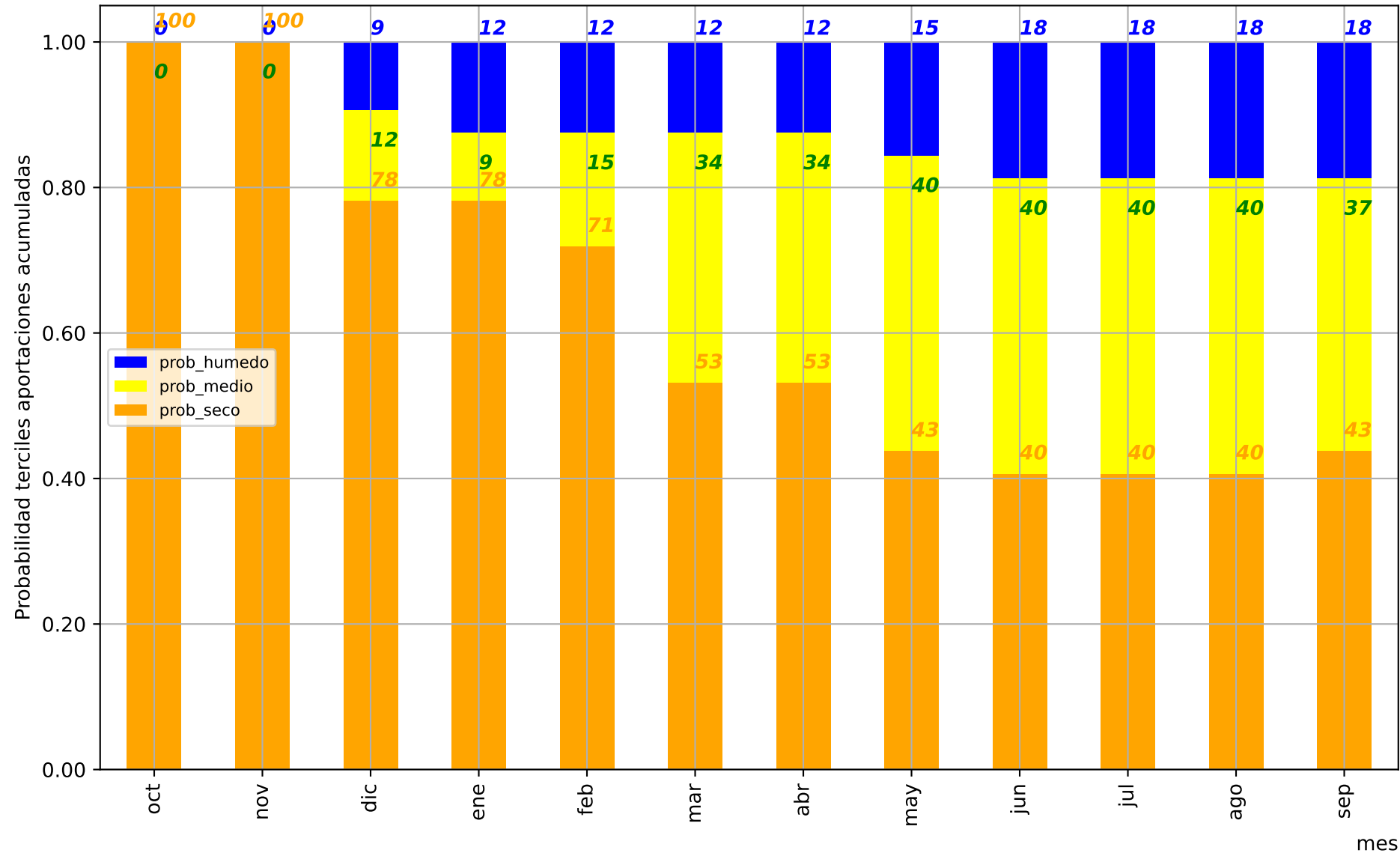


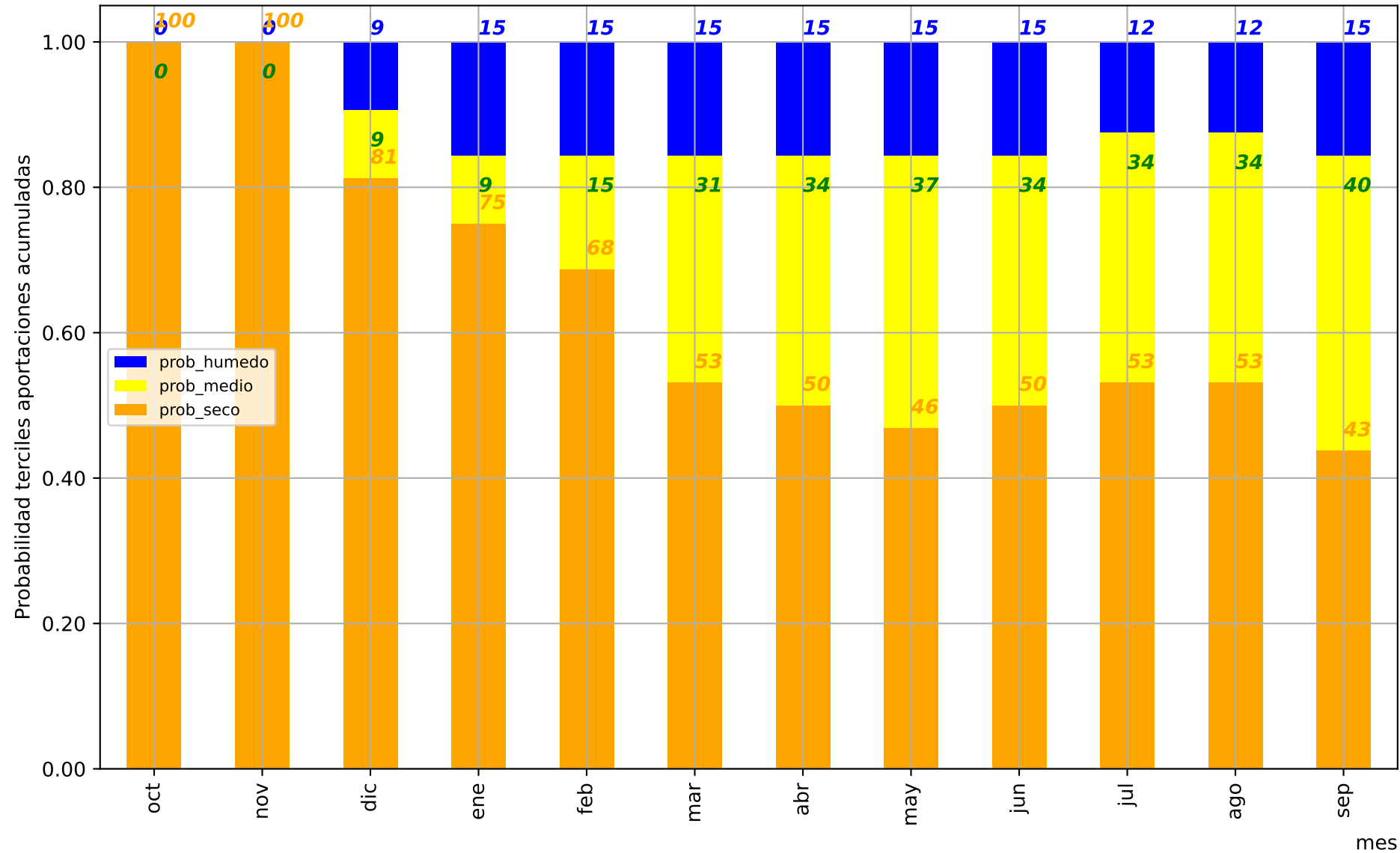


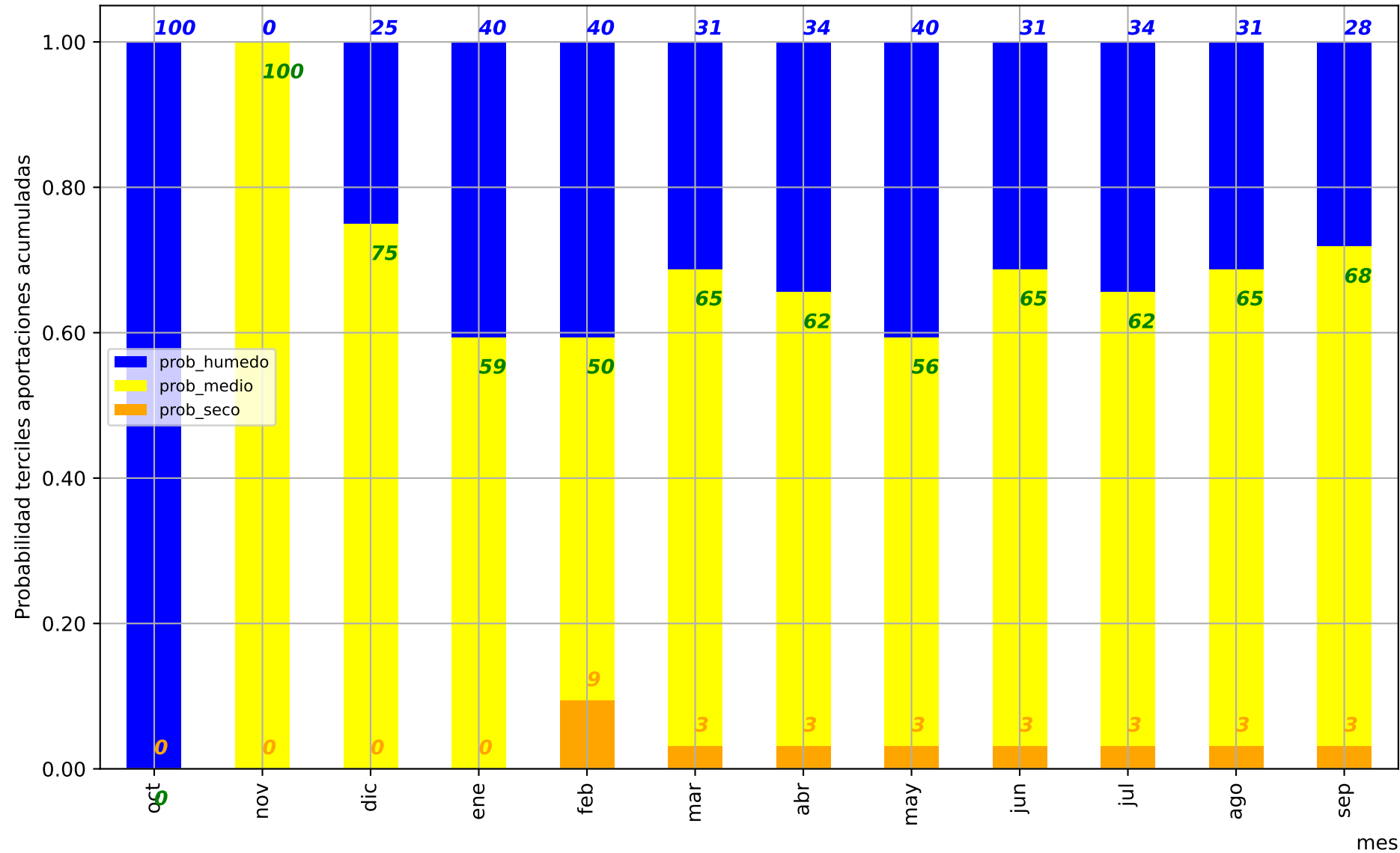


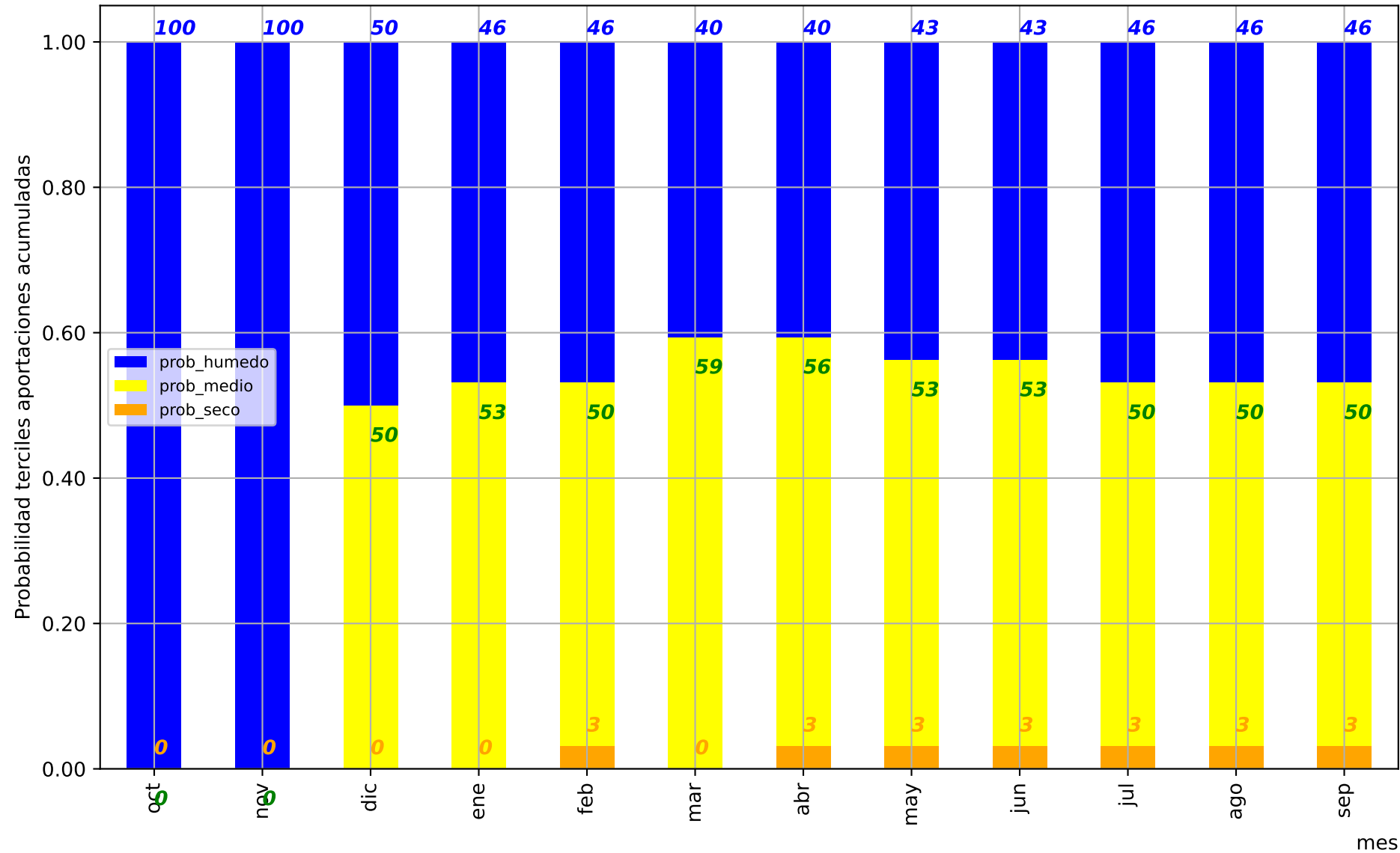


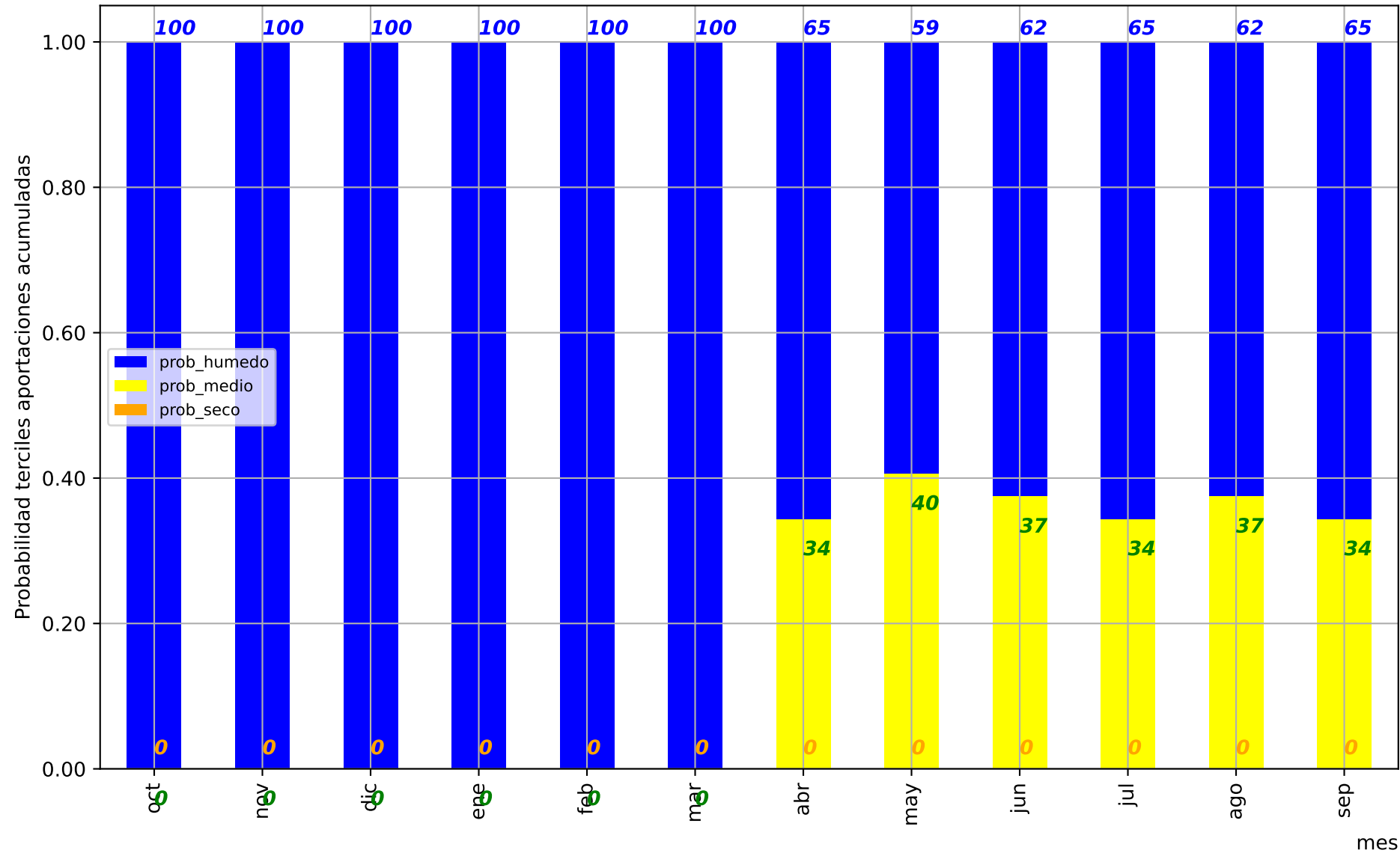


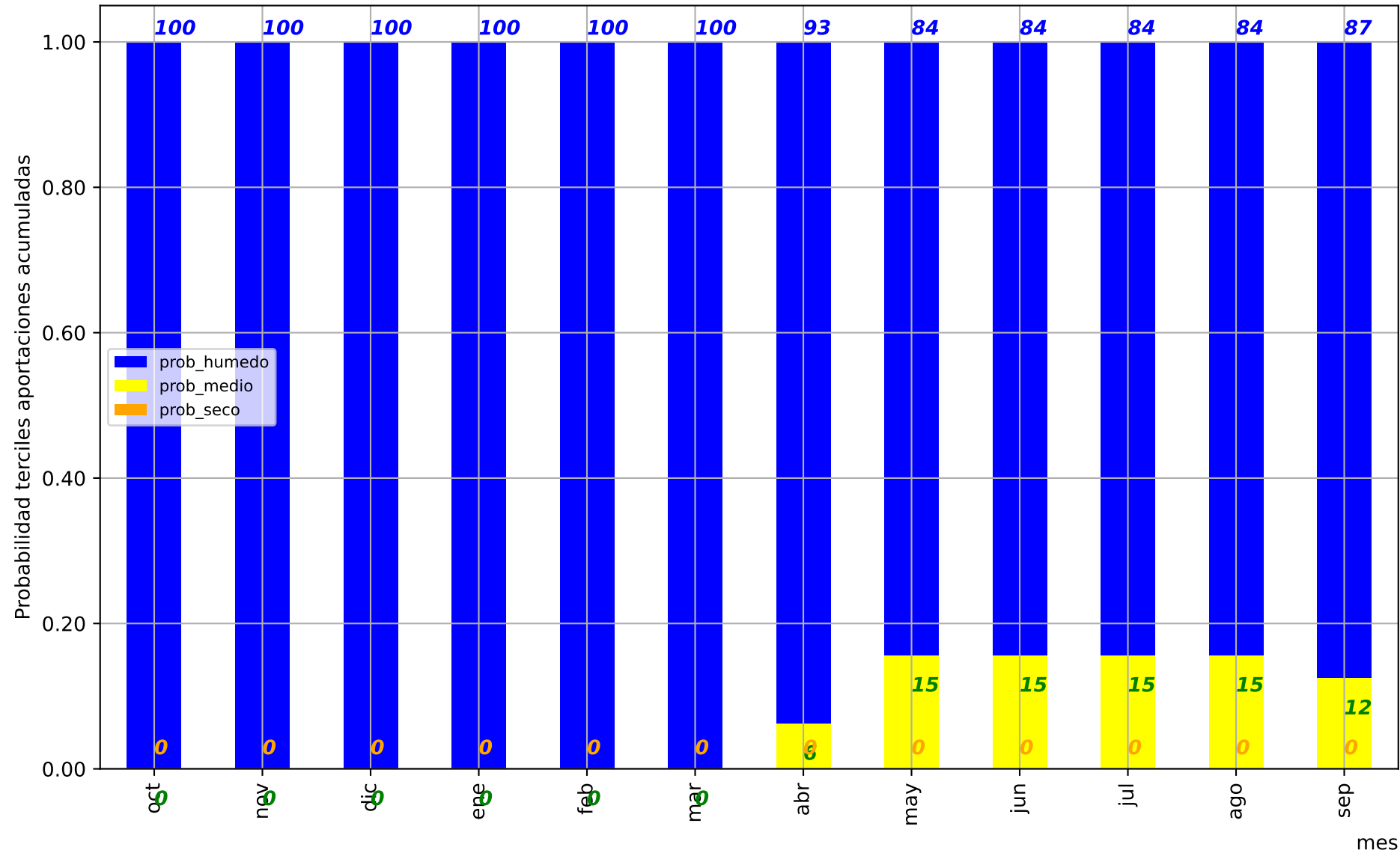


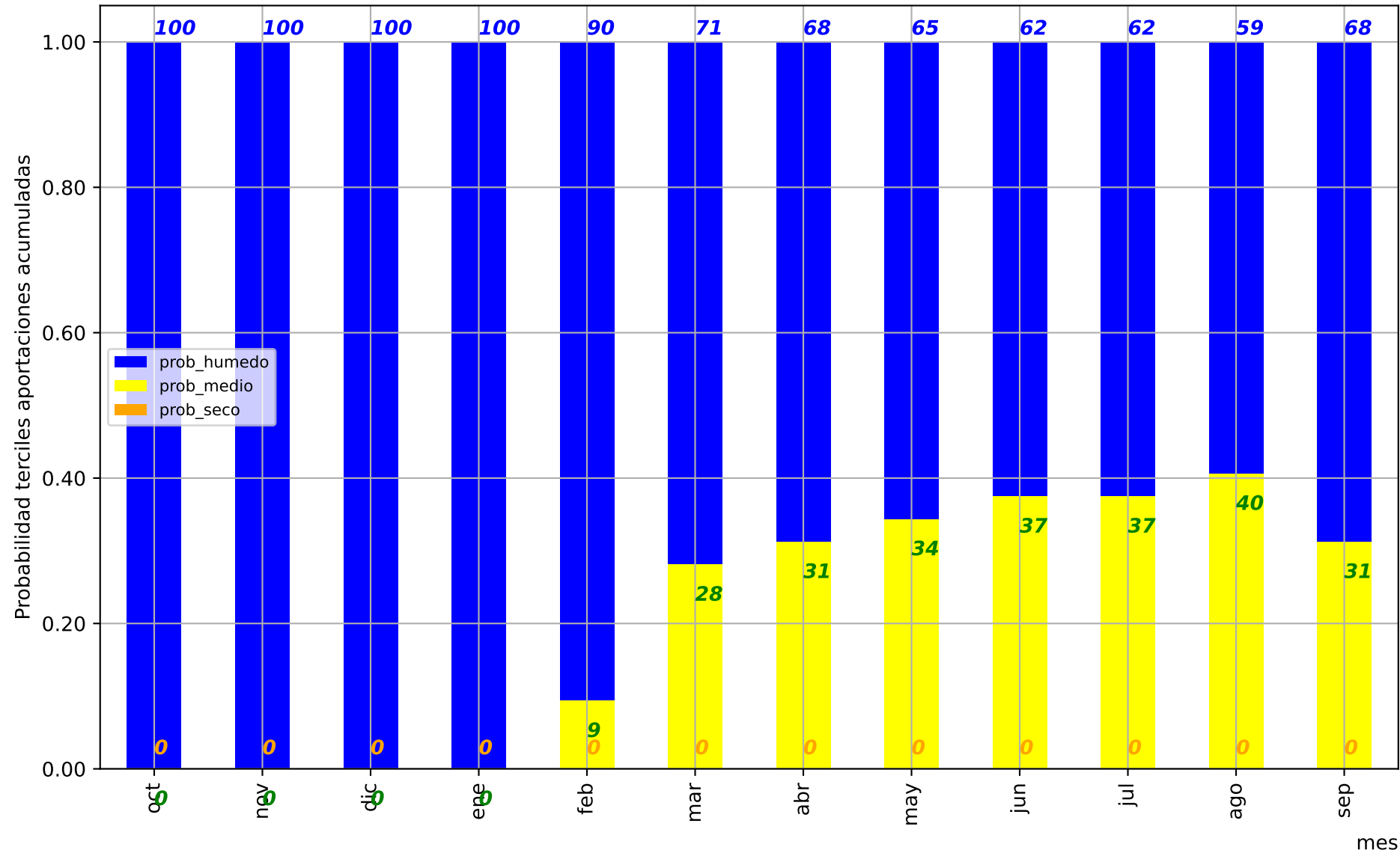


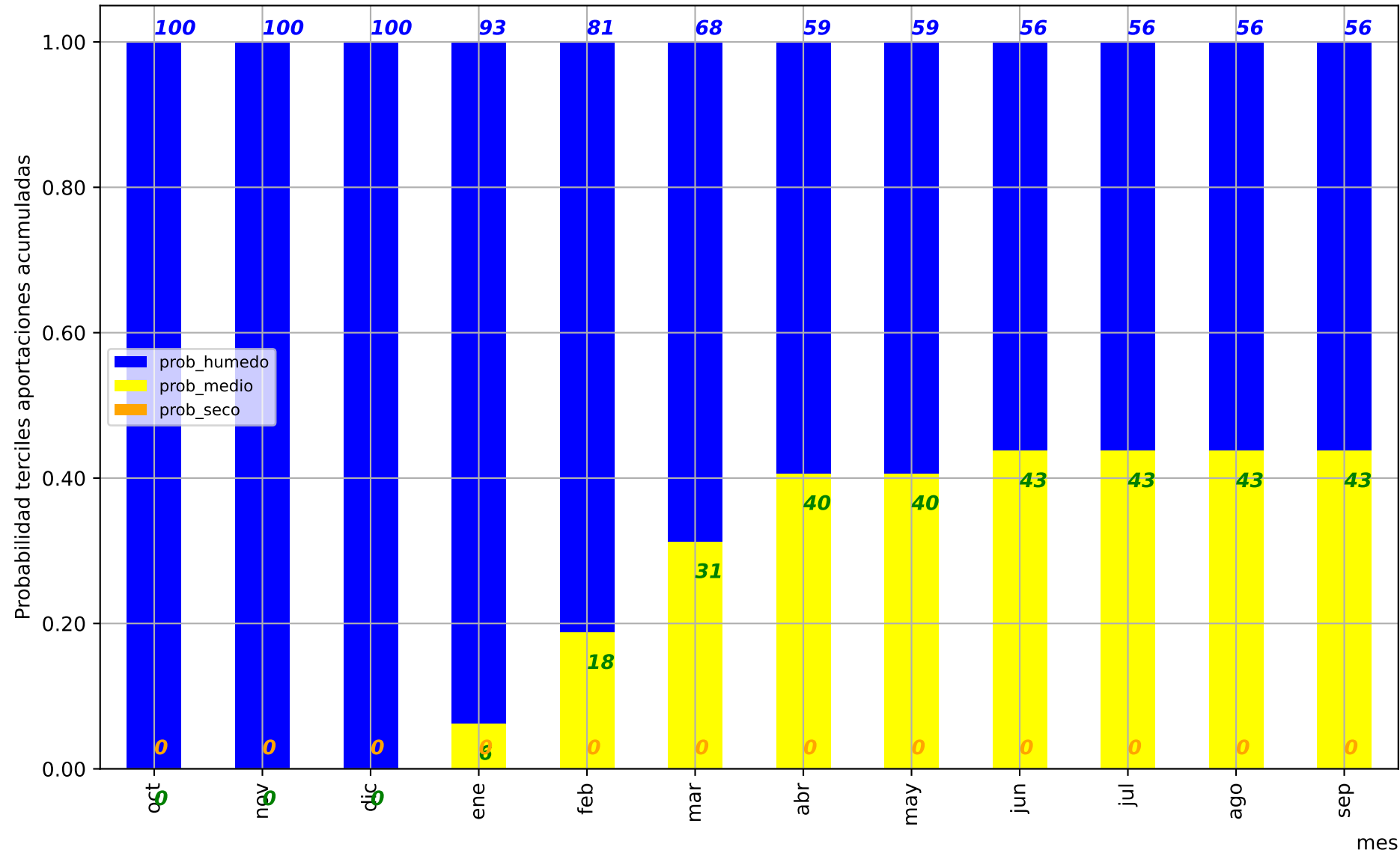


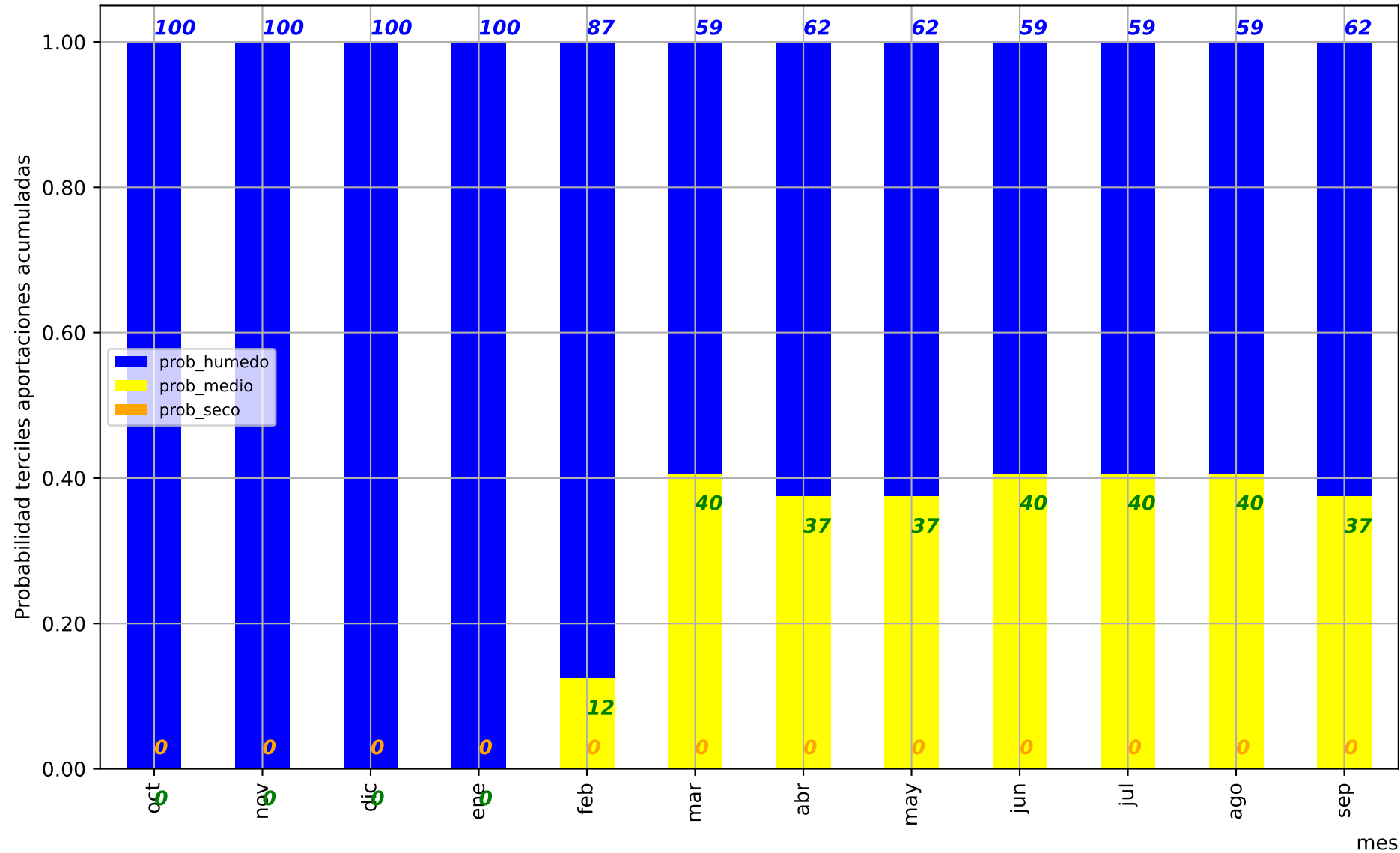


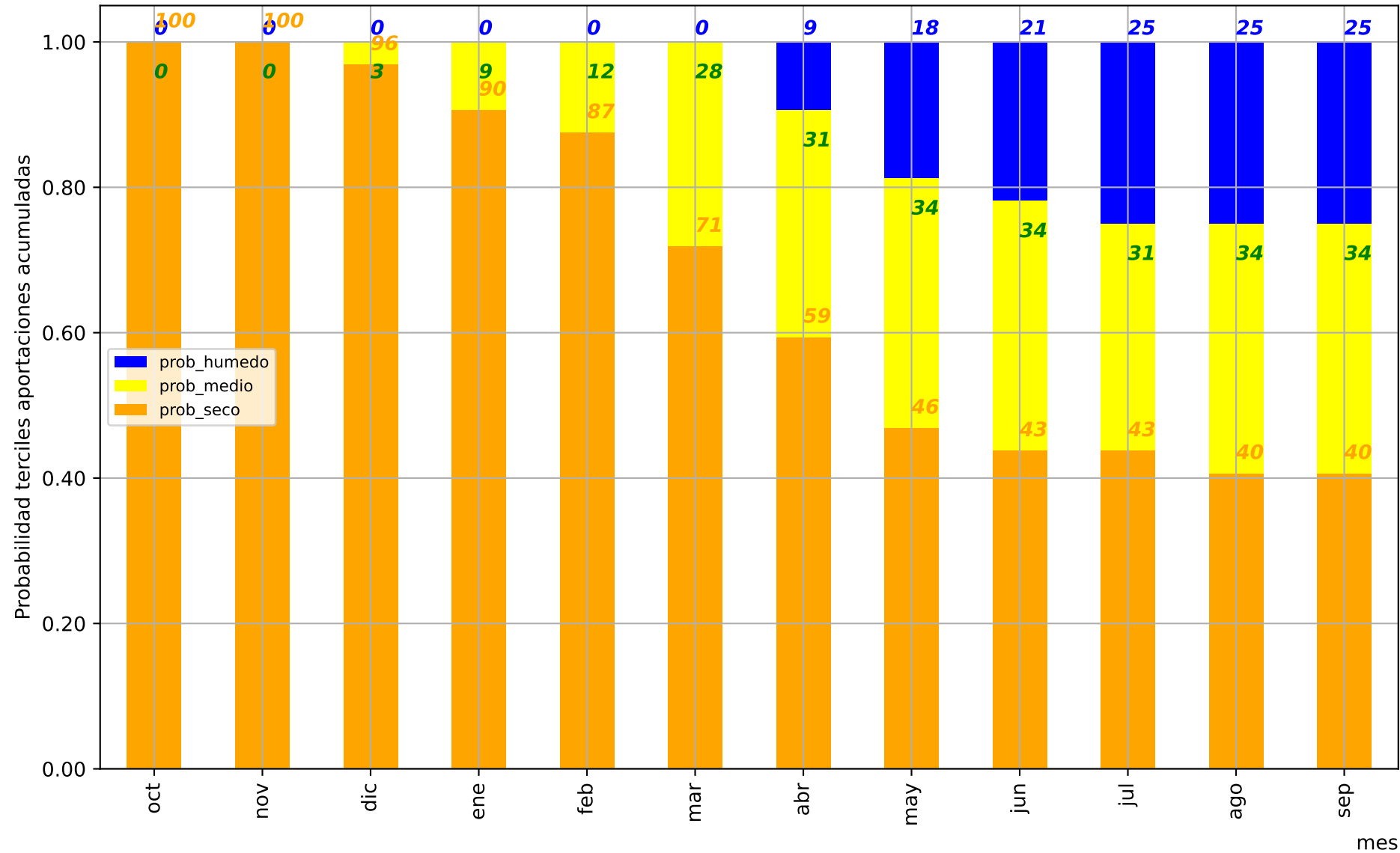


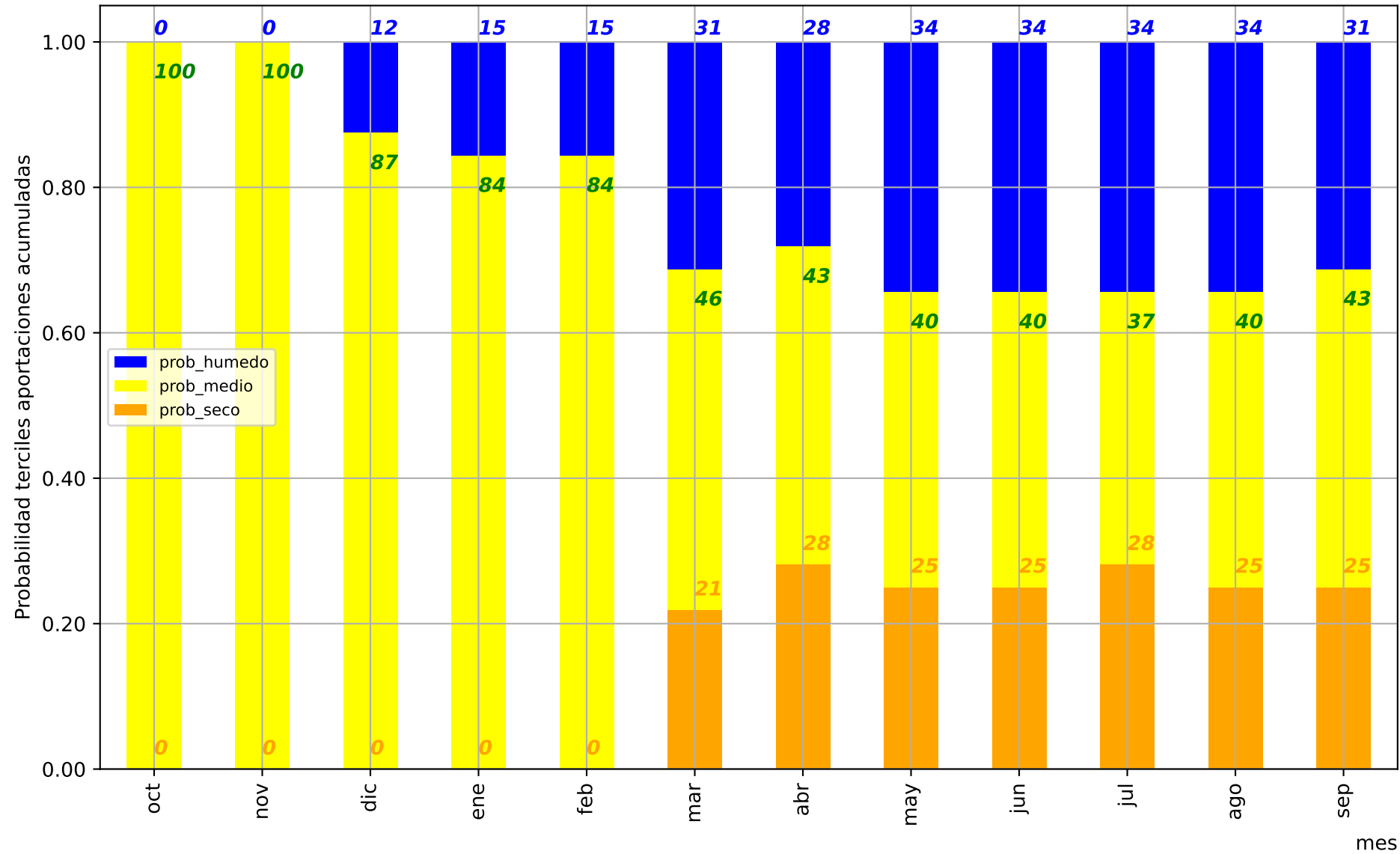


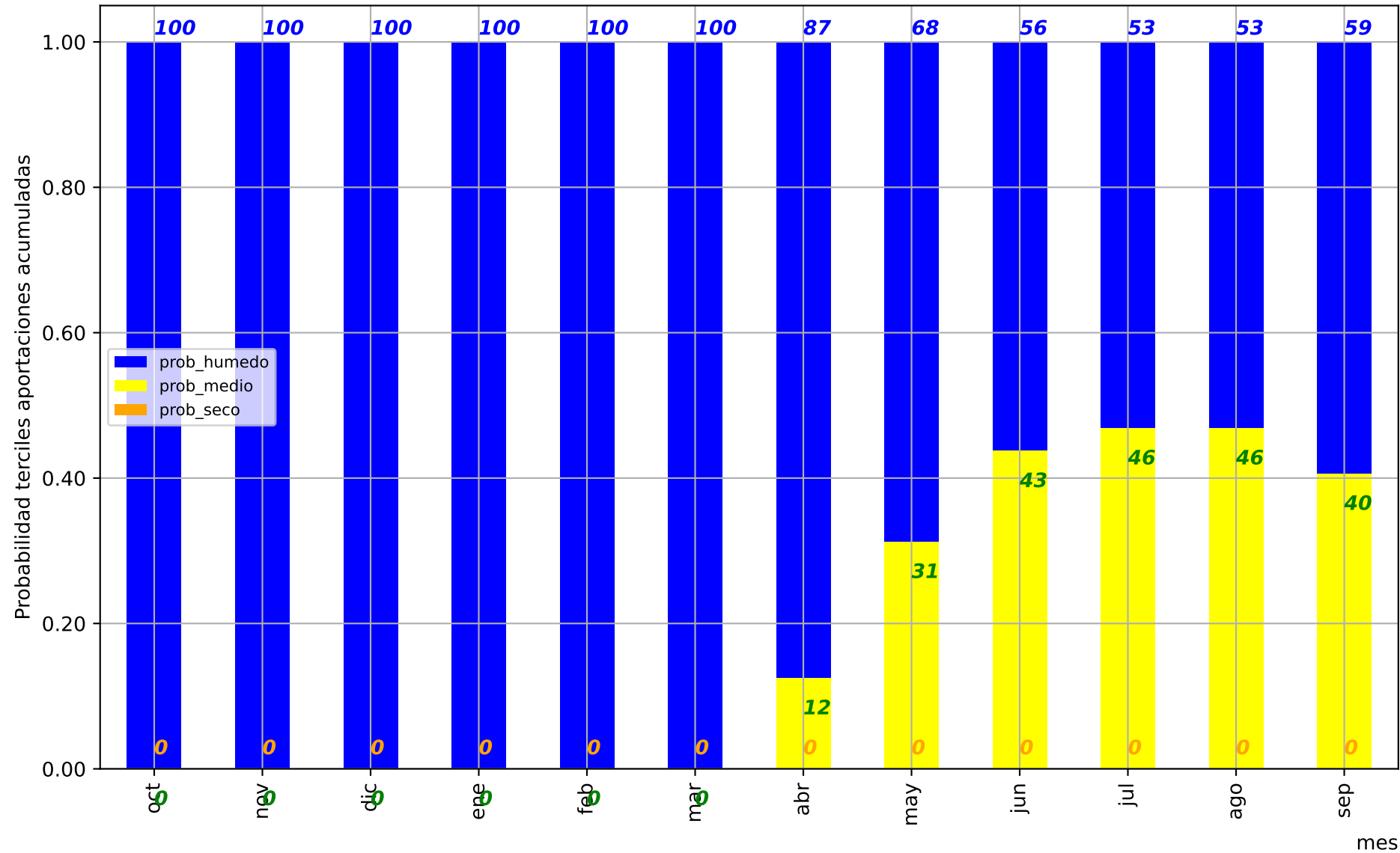


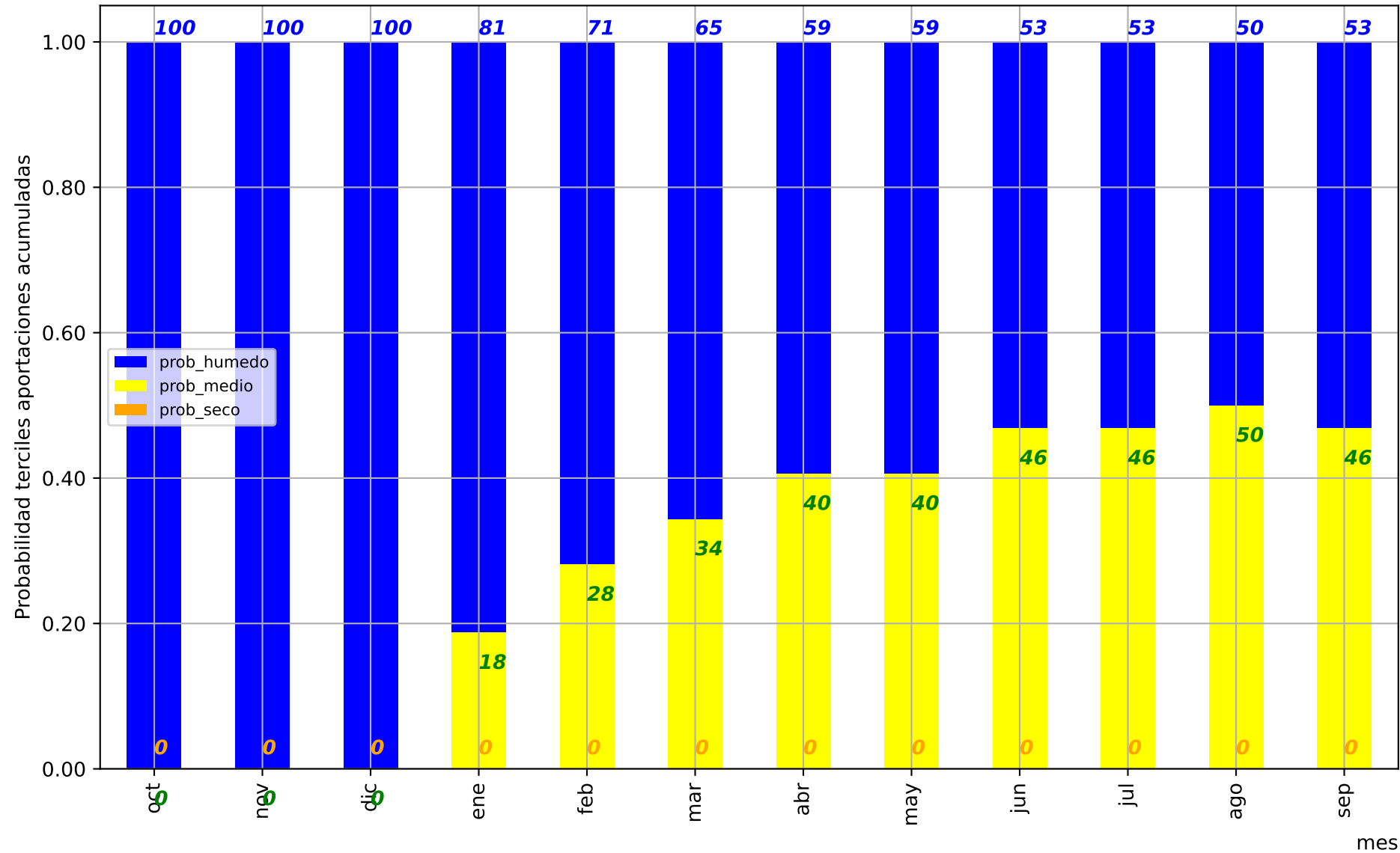


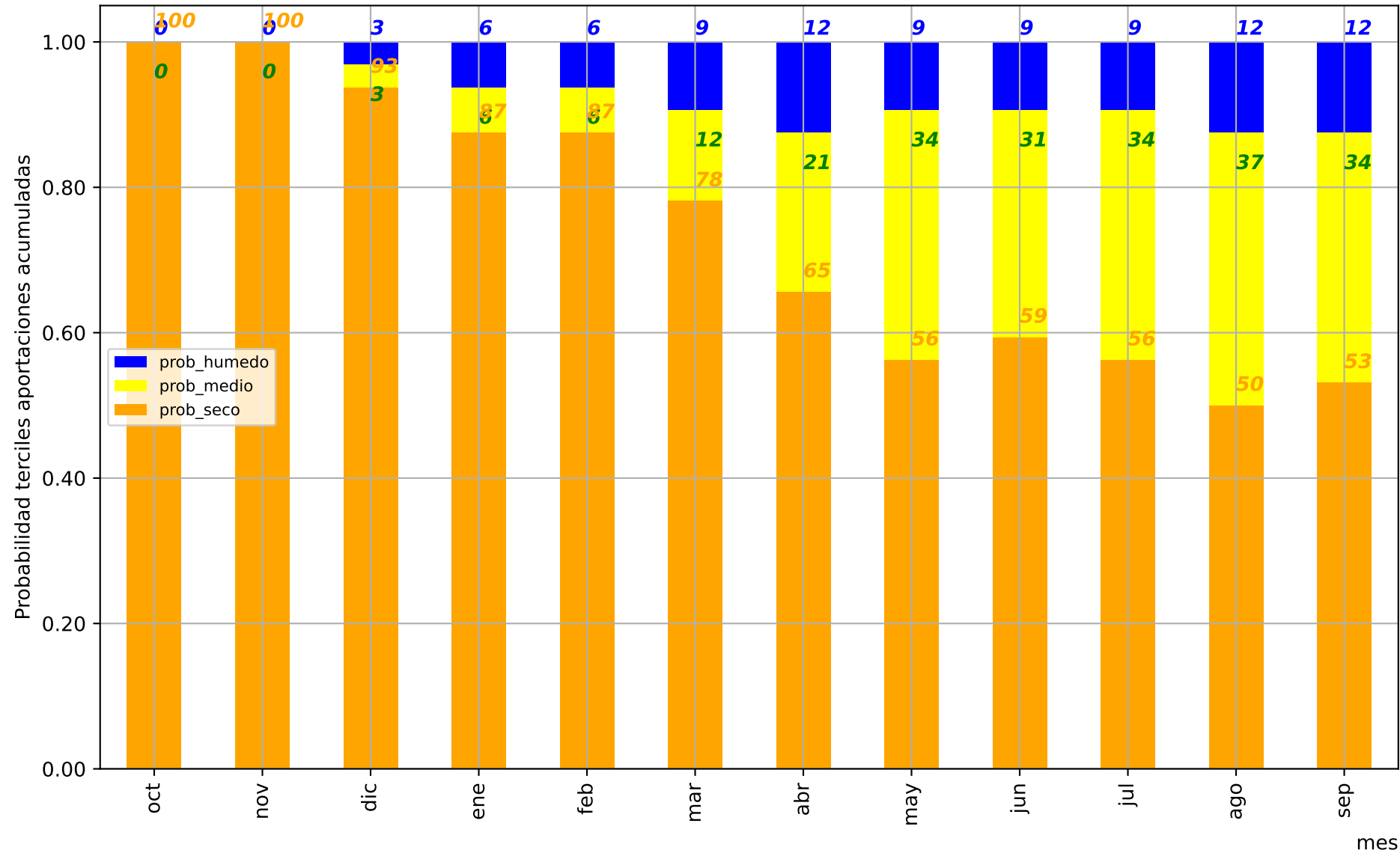


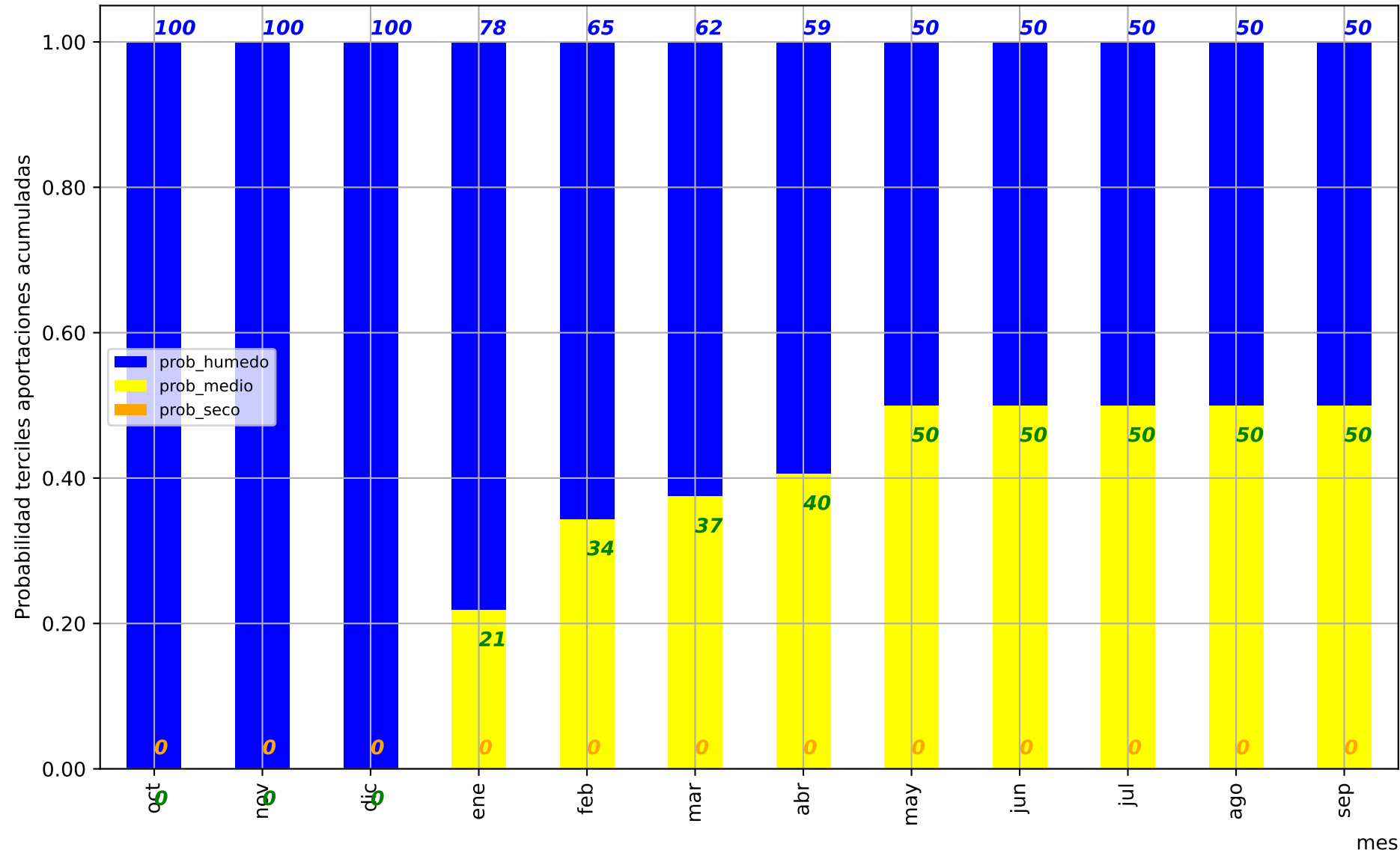


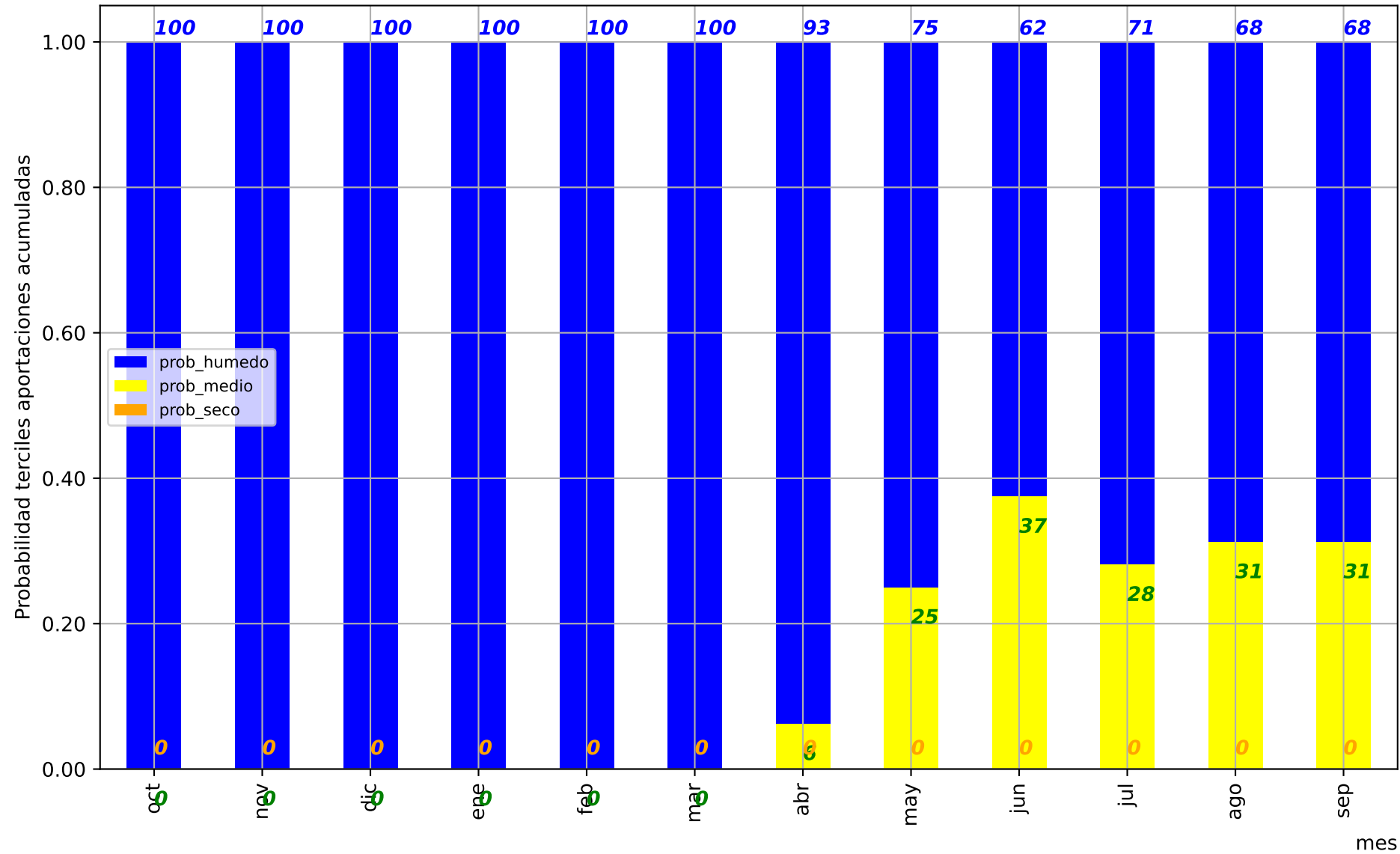


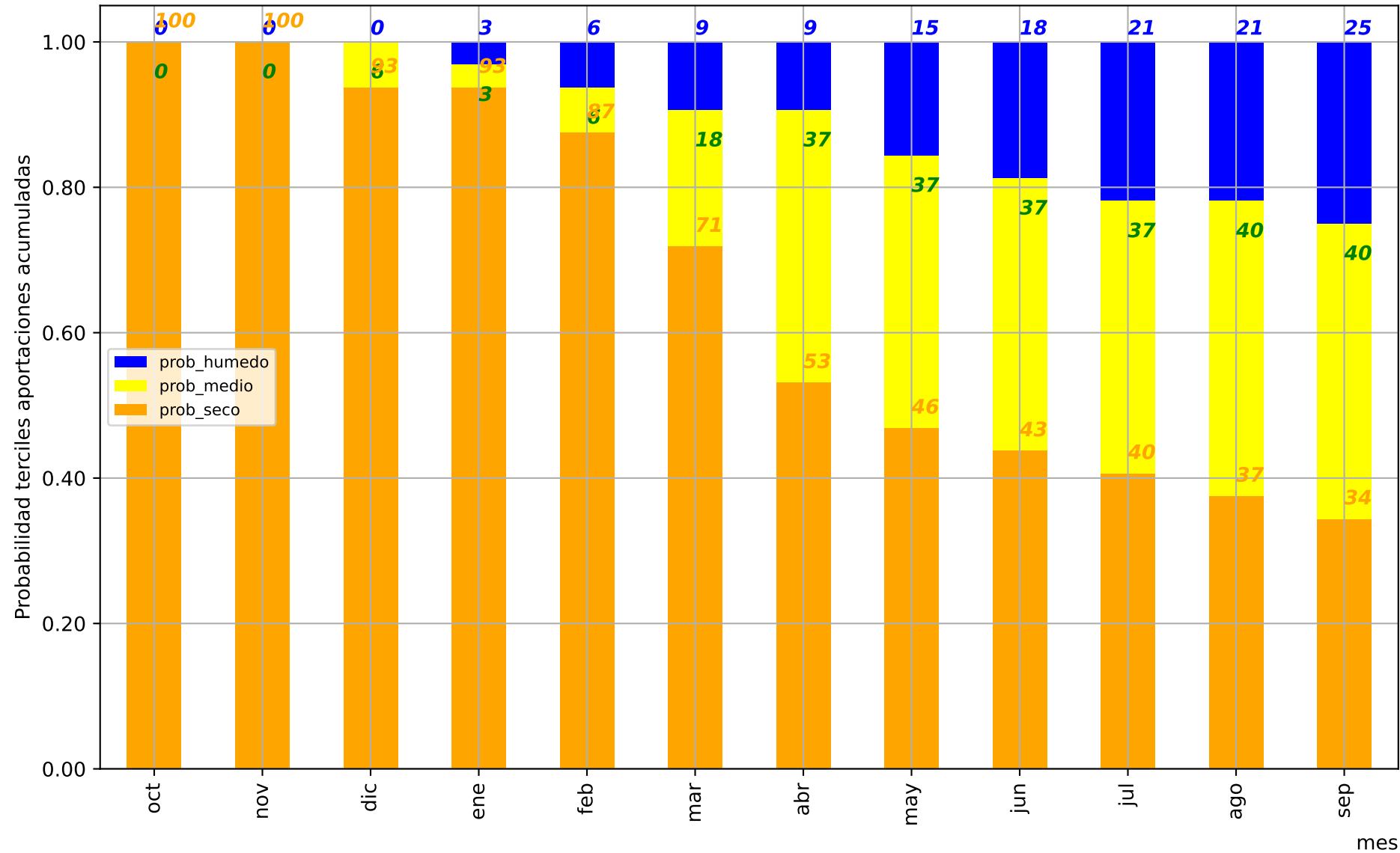


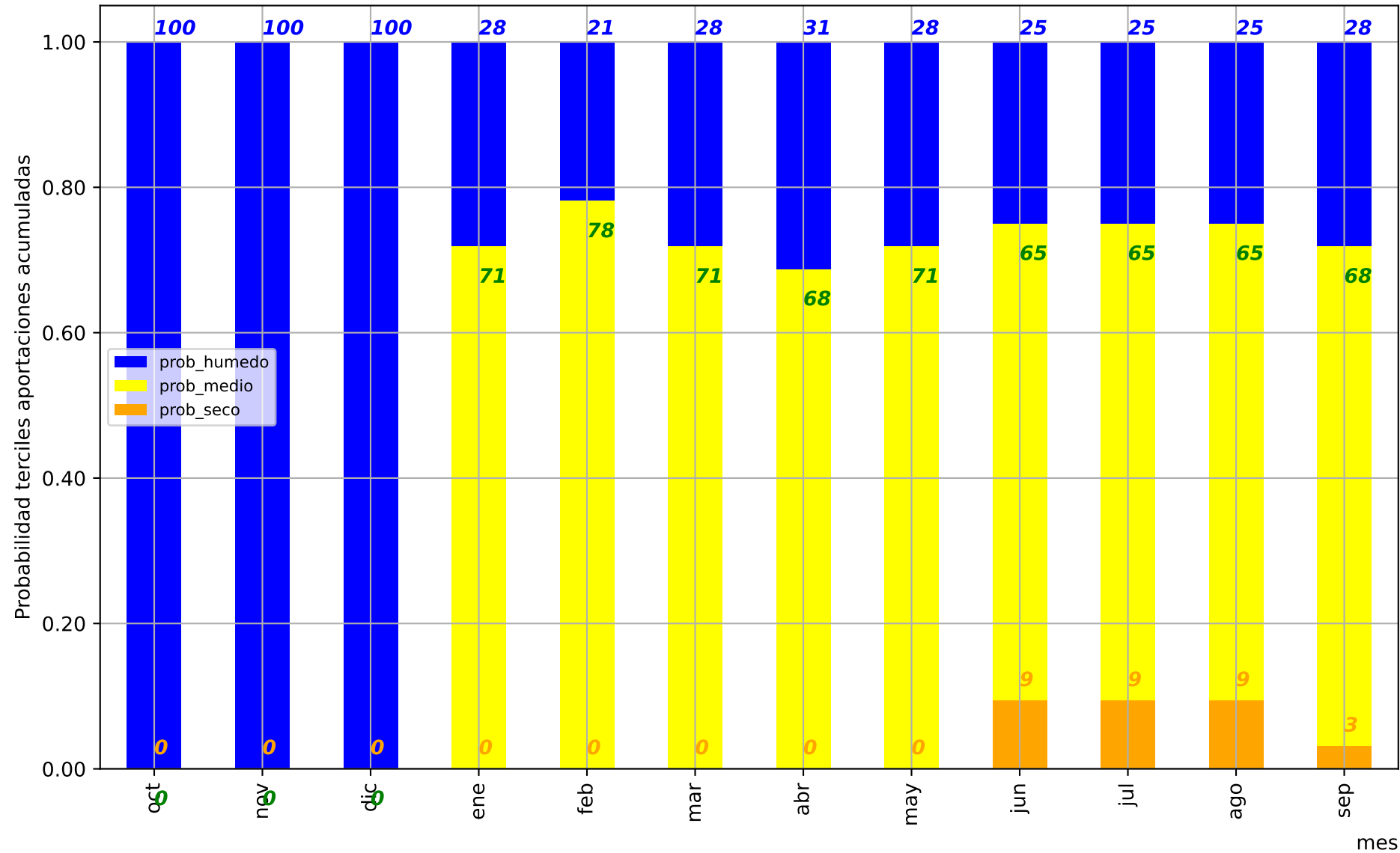


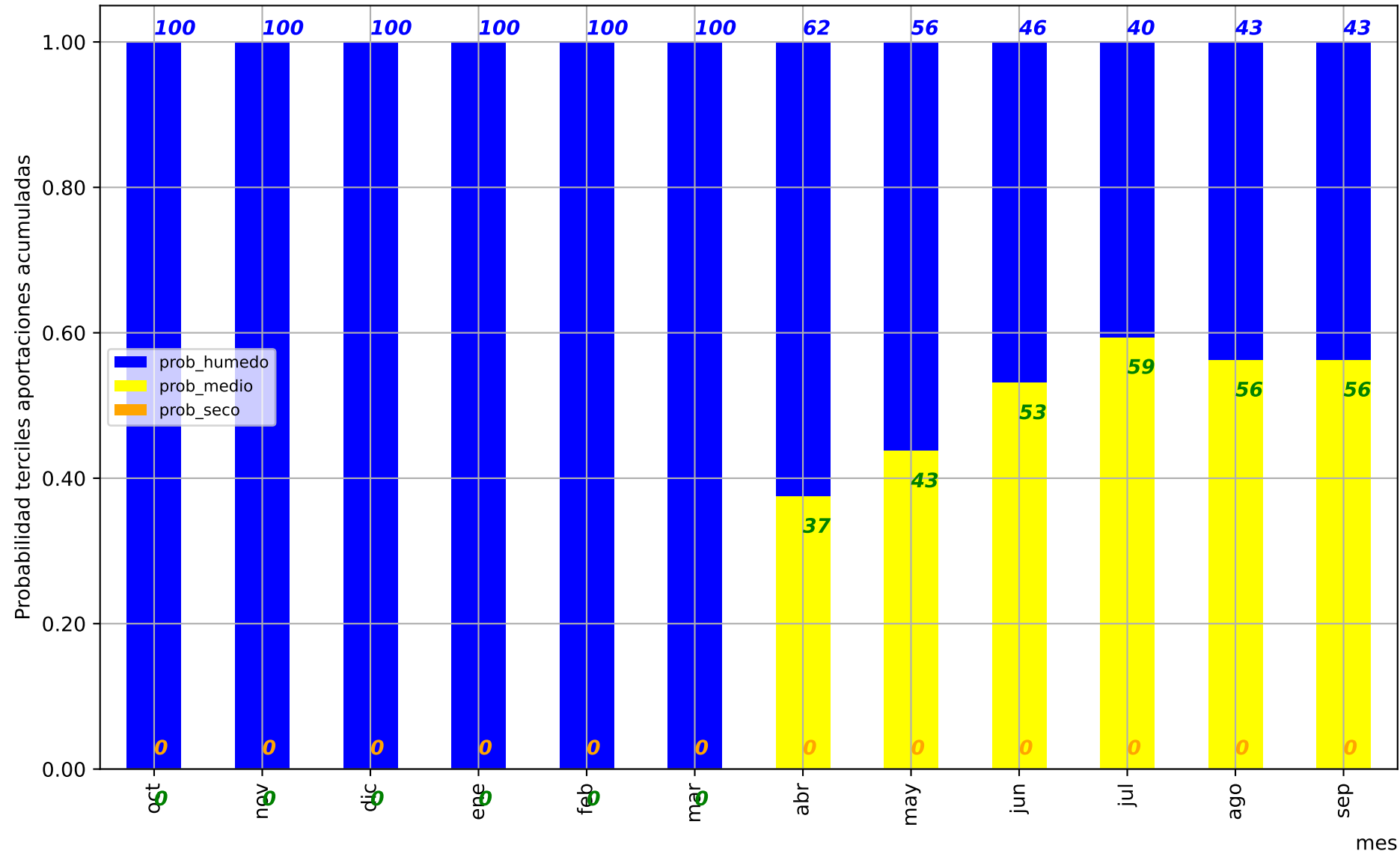


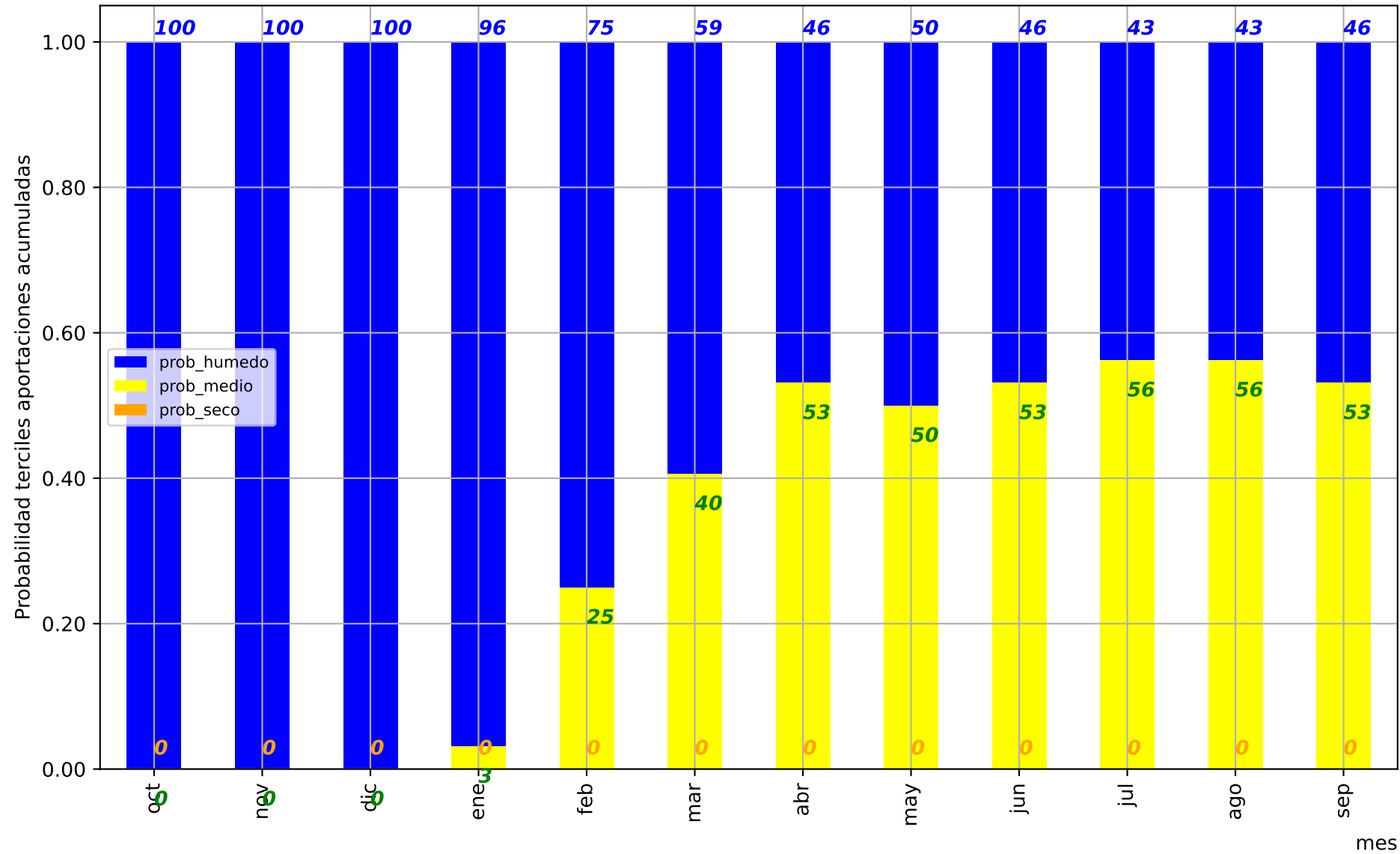












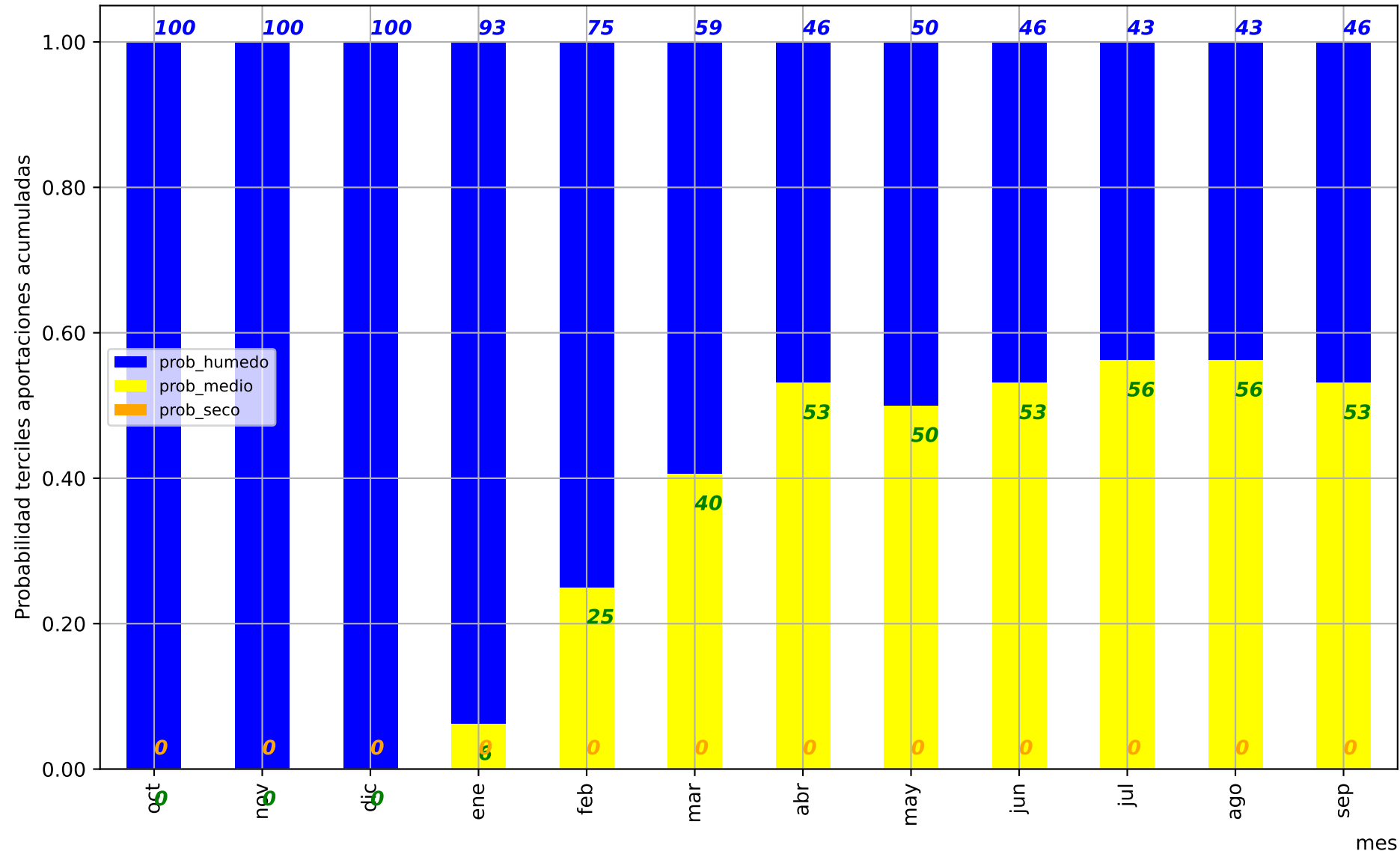


Tabla resumen aportaciones anuales naturales

Ratio respecto la aportación anual media en régimen natural

Valor = 1.00 => Predicción = Aportación anual media en régimen natural

Valor centrato y horquilla de variación

p50%Obs, p50%Resto. Ratio p50%, Horquilla: Ratio p25% - Ratio p75%, p50ECMWF, cXH30, cYH30, q10, q25, q50, q75, q90, Nombre punto

0.73	0.65	1.39	1.07	1.79	71500	4649500	0.18	0.34	0.68	1.36	2.17	"Río Limia completo embalse de Linoso"
0.49	0.81	1.30	1.01	1.67	126500	4772500	0.30	0.47	0.86	1.40	1.81	"Río Miño en Lugo"
0.54	0.73	1.27	1.01	1.56	182500	4702500	0.35	0.51	0.82	1.34	1.86	"Río Sil medio embalse de Pumares"
0.53	0.73	1.26	1.03	1.58	68500	4678500	0.32	0.49	0.83	1.33	1.87	"Río Miño (embalse de Frieria)"
0.14	0.77	0.91	0.73	1.10	377500	4805500	0.58	0.72	0.92	1.23	1.51	"Río Deva (Cares) en desembocadura"
0.16	0.75	0.91	0.72	1.13	333500	4814500	0.51	0.64	0.89	1.26	1.57	"Río Sella en Ribadesella"
0.23	0.76	0.99	0.80	1.21	250500	4827500	0.50	0.65	0.92	1.26	1.61	"Río Nalón"
0.41	0.72	1.13	0.91	1.42	199500	4828500	0.39	0.55	0.86	1.33	1.74	"Río Navía"
0.67	0.77	1.44	1.17	1.83	524500	4636500	0.30	0.45	0.73	1.30	1.79	"Río Duero embalse de Cuerda del Pozo"
0.34	0.72	1.06	0.86	1.31	394500	4739500	0.43	0.55	0.80	1.30	1.76	"Río Pisuerga en el embalse de Aguilar de Campoo"
0.29	0.73	1.02	0.86	1.30	348500	4739500	0.47	0.59	0.85	1.28	1.56	"Río Carrión en Guardo"
0.28	0.78	1.05	0.84	1.36	352500	4609500	0.50	0.59	0.83	1.26	1.77	"Río Pisuerga en Valladolid"
0.42	0.76	1.18	0.91	1.58	346500	4599500	0.25	0.41	0.72	1.26	1.94	"Río Adaja completo"
0.29	0.79	1.08	0.88	1.42	269500	4597500	0.50	0.57	0.83	1.26	1.72	"Río Duero en Zamora"
0.31	0.78	1.09	0.87	1.40	234500	4607500	0.49	0.58	0.84	1.27	1.70	"Río Duero aguas arriba del Tormes (emb Castro, Villalcampo)"
0.37	0.61	0.99	0.75	1.43	221500	4574500	0.32	0.43	0.68	1.26	2.00	"Río Tormes embalse de La Almendra"
0.31	0.75	1.07	0.85	1.40	184500	4557500	0.48	0.57	0.82	1.26	1.73	"Río Duero en embalse Saucelle"
0.31	0.75	1.06	0.85	1.40	172500	4549500	0.48	0.56	0.82	1.27	1.73	"Río Duero en la frontera (San Martín)"

0.22	0.83	1.05	0.77	1.37	535500	4505500	0.35	0.50	0.86	1.27	1.66	"Río Tajo en Trillo"
0.27	0.80	1.06	0.79	1.42	521500	4483500	0.33	0.48	0.84	1.28	1.77	"Río Tajo embalse de Entrepeñas"
0.20	0.71	0.90	0.62	1.25	518500	4472500	0.26	0.41	0.75	1.24	1.86	"Río Guadiela-Tajo embalse de Buendía"
0.23	0.75	0.99	0.71	1.34	515500	4468500	0.30	0.45	0.81	1.27	1.81	"Río Tajo embalse de Bolarque"
0.25	0.74	0.99	0.72	1.37	448500	4432500	0.30	0.44	0.80	1.27	1.82	"Río Tajo en Aranjuez"
0.40	0.82	1.22	0.91	1.66	389500	4409500	0.29	0.43	0.77	1.28	1.93	"Río Tajo en Castrejón"
0.48	0.62	1.10	0.86	1.72	146510	4398500	0.22	0.34	0.62	1.42	2.04	"Río Tajo cola embalse del Cedillo"
0.05	0.25	0.30	0.22	0.48	485500	4348500	0.24	0.39	0.62	1.09	2.20	"Río Guadiana embalse de Guadiana II"
0.09	0.41	0.49	0.36	0.83	413500	4323500	0.35	0.43	0.61	1.06	2.04	"Río Guadiana embalse de El Vicario"
0.27	0.37	0.64	0.42	1.11	208500	4314500	0.13	0.18	0.42	1.13	2.48	"Río Guadiana en Merida"
0.30	0.38	0.68	0.46	1.16	151500	4309500	0.13	0.18	0.42	1.13	2.44	"Río Guadiana azud de Badajoz, zona española"
0.06	0.56	0.61	0.34	0.98	517500	4225500	0.22	0.37	0.68	1.31	2.15	"Río Guadalquivir embalse del Tranco de Beas"
0.08	0.55	0.62	0.46	0.84	479500	4197500	0.43	0.54	0.75	1.17	1.76	"Río Guadiana Menor desembocadura en el Guadalquivir"
0.05	0.36	0.41	0.23	0.76	443500	4207500	0.18	0.27	0.49	1.17	2.24	"Río Guadalimar completo"
0.08	0.18	0.27	0.15	0.75	424500	4212500	0.04	0.08	0.27	1.18	2.59	"Río Rumbalar completo"
0.09	0.22	0.31	0.16	0.76	412500	4224500	0.02	0.07	0.29	1.18	2.20	"Río Jandula embalse de Encinarejo"
0.06	0.43	0.49	0.33	0.82	396500	4213500	0.28	0.36	0.58	1.23	2.00	"Río Guadalquivir embalse de El Marmolejo"
0.06	0.10	0.16	0.09	0.68	357500	4203500	0.02	0.04	0.17	0.93	2.61	"Río Guadalquivir embalse de San Rafael"
0.07	0.39	0.46	0.30	0.78	346500	4193500	0.24	0.32	0.52	1.24	1.98	"Río Guadalquivir en Cordoba"
0.09	0.59	0.68	0.45	0.98	447500	4113500	0.36	0.49	0.75	1.21	1.95	"Río Genil en Granada"
0.06	0.44	0.50	0.36	0.76	376500	4126500	0.36	0.47	0.66	1.24	1.92	"Río Genil embalse de Iznajar"
0.05	0.38	0.43	0.29	0.70	297500	4174500	0.30	0.40	0.58	1.22	1.87	"Río Genil completo (Presa del Judío)"
0.15	0.36	0.50	0.33	0.99	245500	4179500	0.17	0.26	0.47	1.05	2.44	"Río Vilar embalse de Los Melonares"

0.18	0.23	0.41	0.29	1.06	225500	4179500	0.08	0.13	0.29	1.02	2.81	"Rivera de Cala embalse de Cala"
0.14	0.37	0.52	0.34	1.25	196500	4201500	0.16	0.24	0.45	1.20	2.43	"Rivera de Huelva embalse de la Aracena"
0.16	0.39	0.55	0.38	1.24	211500	4188500	0.17	0.25	0.47	1.11	2.52	"Rivera de Huelva embalse de Zufre"
0.17	0.36	0.53	0.36	1.24	219500	4174500	0.15	0.23	0.44	1.09	2.59	"Rivera de Huelva embalse de La Minilla"
0.18	0.30	0.48	0.33	1.19	230500	4162500	0.12	0.18	0.38	1.11	2.74	"Rivera de Huelva embalse de El Gergal"
0.08	0.37	0.45	0.29	0.83	234500	4138500	0.23	0.31	0.52	1.19	2.03	"Río Guadalquivir en Sevilla"
0.08	0.36	0.44	0.28	0.82	201500	4078500	0.22	0.31	0.51	1.16	2.08	"Río Guadalquivir (Sanlucar)"
0.04	0.55	0.59	0.34	0.90	570500	4250500	0.30	0.44	0.74	1.28	2.04	"Río Segura embalse de La Fuensanta"
0.11	0.61	0.72	0.63	0.94	617500	4243500	0.52	0.62	0.84	1.23	1.67	"Río Mundo embalse de Camarillas"
0.09	0.58	0.67	0.52	0.92	665500	4205500	0.43	0.56	0.79	1.23	1.74	"Río Segura en Murcia"
0.09	0.56	0.65	0.51	0.88	706500	4221500	0.41	0.54	0.76	1.19	1.73	"Río Segura desembocadura"
0.10	0.59	0.69	0.61	0.84	709500	4440500	0.64	0.71	0.89	1.14	1.41	"Embalse de Arenós"
0.07	0.46	0.53	0.42	0.70	755500	4422500	0.45	0.53	0.75	1.14	1.65	"Río Mijares: delta del Mijares - mar"
0.09	0.54	0.63	0.45	0.88	663500	4399500	0.40	0.51	0.80	1.27	1.71	"Embalse de Benagéber"
0.10	0.54	0.64	0.52	0.84	728500	4367500	0.48	0.58	0.82	1.21	1.61	"Río Turia: nuevo cauce - mar"
0.11	0.73	0.84	0.54	1.09	573500	4436500	0.41	0.55	0.85	1.24	1.64	"Río Júcar: azud de Villalba - río Huécar"
0.08	0.64	0.72	0.44	1.00	576500	4380500	0.36	0.50	0.80	1.31	1.82	"Embalse de Alarcón"
0.09	0.54	0.62	0.47	0.89	628500	4378500	0.44	0.58	0.83	1.21	1.69	"Embalse de Contreras"
0.09	0.57	0.66	0.53	0.87	703500	4334500	0.50	0.61	0.85	1.22	1.58	"Embalse de Tous"
0.09	0.56	0.65	0.53	0.82	737500	4338500	0.48	0.61	0.83	1.19	1.58	"Desembocadura del Júcar"
0.18	0.73	0.91	0.69	1.23	504500	4725500	0.47	0.62	0.86	1.27	1.64	"Río Ebro en Miranda de Ebro"
0.21	0.72	0.92	0.73	1.26	540500	4704500	0.47	0.60	0.88	1.27	1.61	"Río Ebro embalse de el Cortijo"
0.30	0.61	0.91	0.67	1.43	563500	4674500	0.25	0.43	0.66	1.40	1.99	"Río Cidacos en Arnedillo"

0.43	0.74	1.17	0.97	1.47	648500	4719500	0.41	0.56	0.83	1.30	1.70	"Río Aragón embalse de Yesa"
0.32	0.77	1.10	0.87	1.34	603500	4676500	0.44	0.59	0.87	1.25	1.71	"Río Aragón desembocadura en el Ebro"
0.27	0.76	1.03	0.81	1.32	607500	4670500	0.48	0.62	0.88	1.28	1.68	"Río Ebro en Castejón"
0.31	0.44	0.74	0.42	1.17	641500	4639500	0.04	0.11	0.38	1.07	2.49	"Río Arba completo desembocadura en el Ebro"
0.09	0.57	0.66	0.43	0.96	632500	4551500	0.38	0.51	0.80	1.30	1.75	"Río Jiloca en Daroca"
0.15	0.60	0.74	0.61	1.02	657500	4625500	0.51	0.60	0.81	1.19	1.66	"Río Jalón completo desembocadura en el Ebro"
0.35	0.72	1.07	0.85	1.36	679500	4614500	0.38	0.54	0.81	1.25	1.79	"Río Gállego completo desembocadura en el Ebro"
0.26	0.75	1.02	0.80	1.29	676500	4614500	0.49	0.62	0.87	1.26	1.66	"Río Ebro en Zaragoza"
0.08	0.51	0.59	0.44	0.76	751500	4558500	0.47	0.60	0.80	1.11	1.56	"Rio Guadalope embalse de Caspe"
0.26	0.75	1.02	0.80	1.26	774500	4584500	0.50	0.62	0.87	1.26	1.66	"Río Ebro en el embalse de Mequinenza"
0.34	0.75	1.10	0.90	1.37	779500	4593500	0.44	0.57	0.84	1.24	1.69	"Río Cinca completo desembocadura en el Segre"
0.06	0.61	0.67	0.49	0.91	855500	4669500	0.41	0.56	0.81	1.22	1.67	"Río Segre en el embalse de Oliana"
0.16	0.71	0.86	0.70	1.12	803500	4614500	0.49	0.62	0.87	1.21	1.64	"Río Segre en el aforo de Lleida"
0.25	0.71	0.96	0.81	1.23	776500	4586500	0.48	0.61	0.85	1.23	1.64	"Río Segre completo"
0.26	0.74	1.00	0.82	1.24	797500	4569500	0.53	0.63	0.88	1.25	1.58	"Río Ebro en el embalse de Flix"
0.25	0.74	1.00	0.81	1.23	796500	4525500	0.53	0.63	0.88	1.24	1.59	"Rio Ebro en el aforo E-27 Tortosa"