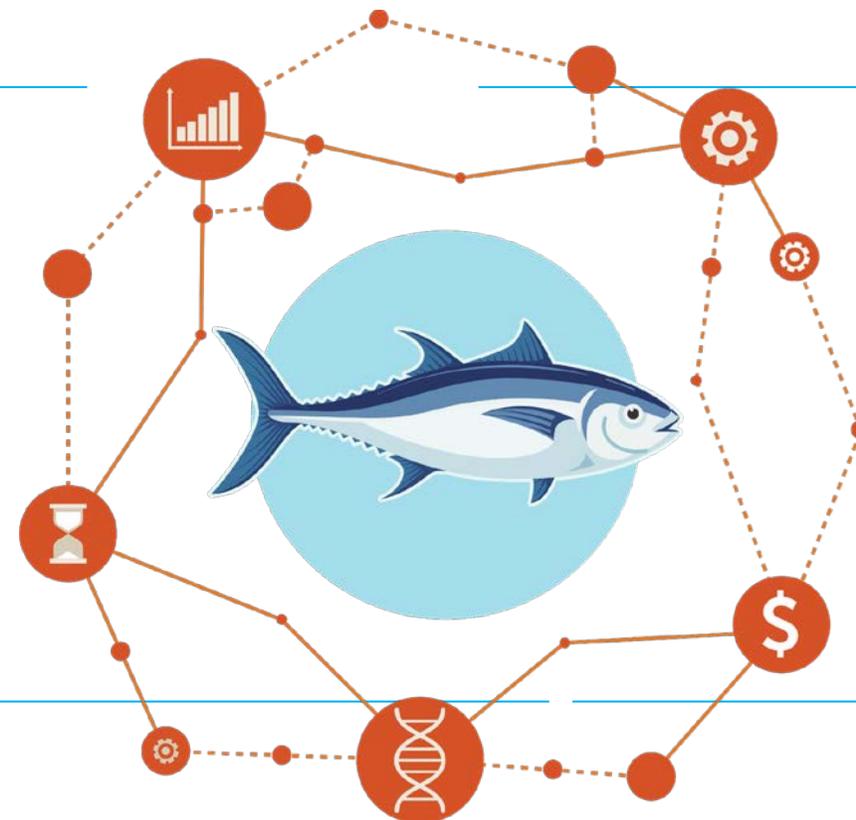




# Évaluation de la stratégie de gestion (MSE) pour le thon rouge (BFT)

Matériel supplémentaire

Réunion intersessions de la Sous-commission 2  
14 octobre 2022



## Références

1. [Page de garde: Https://iccat.github.io/abft-mse/](https://iccat.github.io/abft-mse/) : application Shiny et diagrammes patchwork
2. Guide de décision ([PA2 BFT MSE OCT 02 FRA](#)) pour la MSE thon rouge de l'Atlantique – Résultats finaux & Guide de décision
3. SCRS\_2022\_169. Résultats, aspects saillants et interprétations des quatre procédures de gestion potentielles de la MSE pour le thon rouge

Autres diapositives

Primary Performance Quilt Plot

CSV Excel

# BR

CMP	Type	Tuning	Variant	West					East					Tot
				PGK (Mean)	AvC10 (50%)	AvC30 (50%)	VarC (50%)	LD (15%)	PGK (Mean)	AvC10 (50%)	AvC30 (50%)	VarC (50%)	LD (15%)	
BR5a	BR	5	a	0.6	2.77	2.43	8.81	0.42	0.6	51.97	41.42	15.6	0.45	0.27
BR6a	BR	6	a	0.71	2.57	2.2	8.21	0.45	0.7	46.49	38.13	14.63	0.51	0.27
BR5c	BR	5	c	0.6	2.74	2.46	10.49	0.4	0.6	48.37	41.28	18.65	0.41	0.68
BR6b	BR	6	b	0.7	2.55	2.18	9.75	0.43	0.7	43.27	37.2	17.14	0.44	0.71
BR5b	BR	5	b	0.6	2.7	2.4	10.37	0.4	0.6	47.75	41.17	17.96	0.38	0.72

Secondary Performance Quilt Plot (East / Eastern)

CSV Excel

CMP	Type	Tuning	Variant	East										Tot
				C1 (50%)	AvC20 (50%)	AvgBr (50%)	Br20 (50%)	Br30 (5%)	LD (5%)	LD (10%)	POF (Mean)	PNRK (Mean)	OFT (P>0)	
BR5a	BR	5	a	40.57	47.63	1.21	1.15	0.44	0.27	0.38	0.11	0.93	0.88	0.52
BR6a	BR	6	a	40.57	44.29	1.34	1.29	0.58	0.33	0.43	0.06	0.97	0.92	0.13
BR5c	BR	5	c	40.57	48.45	1.25	1.21	0.33	0.21	0.33	0.13	0.89	0.85	0.67
BR6b	BR	6	b	40.57	41.81	1.38	1.35	0.42	0.25	0.36	0.08	0.93	0.87	0.41
BR5b	BR	5	b	40.57	48.09	1.26	1.22	0.25	0.17	0.3	0.15	0.87	0.82	0.82

Secondary Performance Quilt Plot (West / Western)

CSV Excel

CMP	Type	Tuning	Variant	West										Tot
				C1 (50%)	AvC20 (50%)	AvgBr (50%)	Br20 (50%)	Br30 (5%)	LD (5%)	LD (10%)	POF (Mean)	PNRK (Mean)	OFT (P>0)	
BR5a	BR	5	a	2.69	2.46	1.37	1.33	0.46	0.2	0.29	0.18	0.86	0.85	0.66
BR6a	BR	6	a	2.69	2.38	1.5	1.47	0.54	0.2	0.3	0.09	0.94	0.92	0.1
BR5c	BR	5	c	2.69	2.64	1.4	1.37	0.43	0.19	0.27	0.18	0.87	0.83	0.72
BR6b	BR	6	b	2.69	2.11	1.53	1.51	0.46	0.18	0.28	0.09	0.94	0.92	0.31
BR5b	BR	5	b	2.69	2.43	1.42	1.39	0.38	0.17	0.27	0.17	0.87	0.84	0.82

Primary Performance Quilt Plot

CSV Excel

# FO

CMP	Type	Tuning	Variant	West					East					Tot
				PGK (Mean)	AvC10 (50%)	AvC30 (50%)	VarC (50%)	LD (15%)	PGK (Mean)	AvC10 (50%)	AvC30 (50%)	VarC (50%)	LD (15%)	
FO5a	FO	5	a	0.61	2.89	2.59	14.88	0.4	0.6	46.88	37.19	16.68	0.45	0.28
FO6a	FO	6	a	0.71	2.66	2.37	15.03	0.41	0.7	42.71	33.46	16.45	0.52	0.37
FO5c	FO	5	c	0.62	2.59	2.51	17.41	0.42	0.62	47.15	37.75	19.85	0.41	0.54
FO6b	FO	6	b	0.71	2.43	2.3	17.27	0.42	0.7	43.08	34.46	19.13	0.46	0.66
FO5b	FO	5	b	0.61	2.59	2.51	17.12	0.4	0.6	47.15	38.29	19.35	0.37	0.7

Secondary Performance Quilt Plot (East / Eastern)

CSV Excel

CMP	Type	Tuning	Variant	East										Tot
				C1 (50%)	AvC20 (50%)	AvgBr (50%)	Br20 (50%)	Br30 (5%)	LD (5%)	LD (10%)	POF (Mean)	PNRK (Mean)	OFT (P>0)	
FO5a	FO	5	a	38.29	43.88	1.39	1.35	0.3	0.25	0.36	0.25	0.8	0.83	0.65
FO6a	FO	6	a	38.29	38.87	1.52	1.49	0.45	0.34	0.45	0.13	0.9	0.89	0.11
FO5c	FO	5	c	38.29	44.51	1.39	1.35	0.25	0.21	0.33	0.22	0.81	0.81	0.69
FO6b	FO	6	b	38.29	40.19	1.49	1.46	0.35	0.26	0.37	0.13	0.89	0.87	0.3
FO5b	FO	5	b	38.29	44.97	1.36	1.33	0.18	0.16	0.28	0.24	0.78	0.79	0.88

Secondary Performance Quilt Plot (West / Western)

CSV Excel

CMP	Type	Tuning	Variant	West										Tot
				C1 (50%)	AvC20 (50%)	AvgBr (50%)	Br20 (50%)	Br30 (5%)	LD (5%)	LD (10%)	POF (Mean)	PNRK (Mean)	OFT (P>0)	
FO5a	FO	5	a	2.96	2.81	1.37	1.31	0.37	0.16	0.25	0.19	0.86	0.88	0.74
FO6a	FO	6	a	2.96	2.55	1.48	1.45	0.42	0.16	0.25	0.08	0.94	0.93	0.28
FO5c	FO	5	c	2.96	2.68	1.4	1.36	0.38	0.18	0.27	0.17	0.87	0.88	0.51
FO6b	FO	6	b	2.96	2.44	1.5	1.47	0.38	0.15	0.25	0.08	0.94	0.93	0.35
FO5b	FO	5	b	2.96	2.7	1.39	1.34	0.31	0.14	0.25	0.19	0.85	0.87	0.88

Primary Performance Quilt Plot

CSV Excel

LW

CMP	Type	Tuning	Variant	West					East					Tot
				PGK (Mean)	AvC10 (50%)	AvC30 (50%)	VarC (50%)	LD (15%)	PGK (Mean)	AvC10 (50%)	AvC30 (50%)	VarC (50%)	LD (15%)	
LW5a	LW	5	a	0.6	2.41	2.25	16.52	0.48	0.6	43.96	36.33	18.35	0.45	0.25
LW6a	LW	6	a	0.7	2.04	1.97	16.5	0.5	0.7	36.41	32.08	17.68	0.51	0.33
LW5c	LW	5	c	0.6	2.22	2.22	17.74	0.47	0.6	47.09	37.88	20.25	0.39	0.65
LW5b	LW	5	b	0.6	2.21	2.22	17.34	0.46	0.6	45.02	37.04	19.72	0.37	0.66
LW6b	LW	6	b	0.7	2.02	1.97	17.42	0.47	0.7	37.94	32.22	19.08	0.44	0.74

Secondary Performance Quilt Plot (East / Eastern)

CSV Excel

CMP	Type	Tuning	Variant	East										Tot
				C1 (50%)	AvC20 (50%)	AvgBr (50%)	Br20 (50%)	Br30 (5%)	LD (5%)	LD (10%)	POF (Mean)	PNRK (Mean)	OFT (P>0)	
LW5a	LW	5	a	43.2	40.46	1.33	1.3	0.41	0.27	0.37	0.18	0.87	0.87	0.61
LW6a	LW	6	a	43.2	34.79	1.48	1.47	0.51	0.32	0.43	0.09	0.94	0.91	0.13
LW5c	LW	5	c	43.2	43.16	1.29	1.24	0.31	0.19	0.3	0.16	0.87	0.85	0.8
LW5b	LW	5	b	43.2	41.73	1.3	1.26	0.28	0.18	0.28	0.17	0.86	0.84	0.88
LW6b	LW	6	b	43.2	35.78	1.46	1.42	0.41	0.23	0.35	0.07	0.94	0.89	0.34

Secondary Performance Quilt Plot (West / Western)

CSV Excel

CMP	Type	Tuning	Variant	West										Tot
				C1 (50%)	AvC20 (50%)	AvgBr (50%)	Br20 (50%)	Br30 (5%)	LD (5%)	LD (10%)	POF (Mean)	PNRK (Mean)	OFT (P>0)	
LW5a	LW	5	a	2.45	2.39	1.41	1.37	0.48	0.22	0.32	0.21	0.85	0.86	0.65
LW6a	LW	6	a	2.45	2.07	1.56	1.54	0.55	0.23	0.33	0.12	0.93	0.92	0.13
LW5c	LW	5	c	2.45	2.36	1.44	1.4	0.49	0.22	0.32	0.21	0.85	0.84	0.64
LW5b	LW	5	b	2.45	2.36	1.43	1.4	0.43	0.2	0.3	0.21	0.84	0.84	0.87
LW6b	LW	6	b	2.45	2.06	1.57	1.56	0.49	0.21	0.3	0.12	0.93	0.91	0.37

# TC

West

East

CMP	Type	Tuning	Variant	West					East					Tot
				PGK (Mean)	AvC10 (50%)	AvC30 (50%)	VarC (50%)	LD (15%)	PGK (Mean)	AvC10 (50%)	AvC30 (50%)	VarC (50%)	LD (15%)	
TC5a	TC	5	a	0.8	2.87	2.4	7.51	0.4	0.8	41.07	38.18	10.01	0.41	0.28
TC6a	TC	6	a	0.71	2.37	2.13	7.09	0.45	0.7	38.33	32.27	9.41	0.49	0.3
TC6c	TC	6	c	0.71	2.33	2.1	8.24	0.43	0.71	38.25	32	11.11	0.44	0.67
TC8b	TC	6	b	0.71	2.33	2.1	8.22	0.43	0.71	35.89	31.69	11.05	0.43	0.68
TC5c	TC	5	c	0.8	2.6	2.39	8.53	0.37	0.8	40.4	38.01	11.9	0.35	0.69
TC5b	TC	5	b	0.81	2.69	2.38	8.49	0.37	0.8	40.12	35.78	11.84	0.34	0.71

## Secondary Performance Quilt Plot (East / Eastern)

CSV Excel

CMP	Type	Tuning	Variant	East											Tot
				C1 (50%)	AvC20 (50%)	AvgBr (50%)	Br20 (50%)	Br30 (5%)	LD (5%)	LD (10%)	POF (Mean)	PNRK (Mean)	OFT (P>0)		
TC5a	TC	5	a	41.28	39.02	1.38	1.38	0.38	0.24	0.35	0.18	0.85	0.83	0.67	
TC6a	TC	6	a	38.91	34.38	1.52	1.51	0.49	0.32	0.42	0.09	0.93	0.89	0.17	
TC6c	TC	6	c	38.5	34.24	1.55	1.54	0.43	0.28	0.36	0.08	0.93	0.87	0.27	
TC8b	TC	6	b	38.29	33.88	1.56	1.55	0.42	0.25	0.35	0.07	0.93	0.87	0.27	
TC5c	TC	5	c	40.94	38.74	1.41	1.39	0.3	0.18	0.27	0.17	0.84	0.81	0.81	
TC5b	TC	5	b	40.78	38.43	1.42	1.39	0.28	0.16	0.26	0.17	0.84	0.81	0.85	

## Secondary Performance Quilt Plot (West / Western)

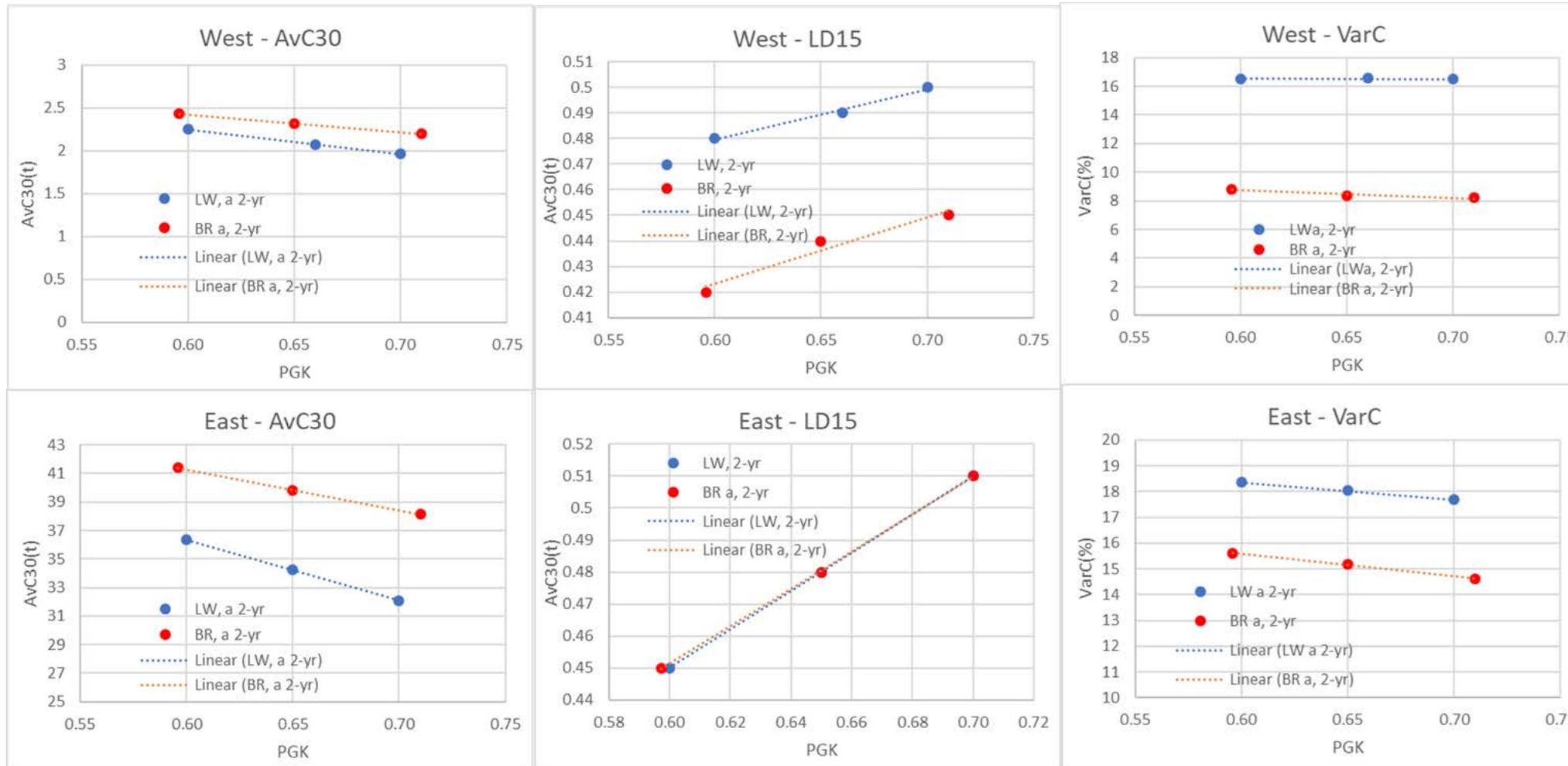
CSV Excel

CMP	Type	Tuning	Variant	West											Tot
				C1 (50%)	AvC20 (50%)	AvgBr (50%)	Br20 (50%)	Br30 (5%)	LD (5%)	LD (10%)	POF (Mean)	PNRK (Mean)	OFT (P>0)		
TC5a	TC	5	a	2.85	2.53	1.44	1.43	0.35	0.17	0.26	0.24	0.81	0.87	0.74	
TC6a	TC	6	a	2.5	2.23	1.56	1.57	0.46	0.21	0.3	0.12	0.91	0.92	0.2	
TC6c	TC	6	c	2.47	2.2	1.59	1.59	0.4	0.19	0.28	0.1	0.93	0.93	0.21	
TC8b	TC	6	b	2.46	2.2	1.59	1.6	0.4	0.18	0.28	0.11	0.92	0.93	0.24	
TC5c	TC	5	c	2.82	2.5	1.46	1.45	0.3	0.14	0.23	0.22	0.83	0.87	0.81	
TC5b	TC	5	b	2.82	2.49	1.46	1.45	0.28	0.13	0.23	0.22	0.83	0.87	0.84	



Point de décision n°2 : La performance de PGK65% se situe entre 60 et 70%.

La relation entre PGK et les principales statistiques de performance est linéaire et PGK65 est presque à mi-chemin entre PGK60 et PGK70 pour BR (2 ans) et LW. Pour BR avec un intervalle de 3 ans, les résultats sont similaires.



La Sous-commission 2 peut choisir entre 60 et 70, les résultats peuvent être vus par interpolation.



## Point de décision supplémentaire éventuel: Modification minimale du TAC

*BR a été testé avec une modification minimale du TAC de 100 t (Ouest) et 1.000 t (Est).*

*La Sous-commission 2 peut choisir n'importe quelle modification minimale du TAC ou aucune, elle pourrait être différente entre l'Est et l'Ouest; les résultats seront presque identiques à ceux des MP existantes, à l'exception d'une VarC plus élevée.*

	TAC inter.	PKG	Br30	LD*15%	LD*10%	AvC30	C1	VarC
<b>EAST</b>								
New package - 0.6 vs 0.7 PKG and 2 vs 3 yr intervals								
BR5a	2	<b>0.60</b>	1.17 (0.44; 2.15)	0.45	0.38	41.42 (12.29; 75.35)	40.57	15.60 (8.73; 22.76)
BR5b	3	<b>0.60</b>	1.17 (0.25; 2.22)	0.38	0.30	41.17 (13.20; 71.21)	40.57	17.96 (10.00; 25.71)
BR6a	2	<b>0.70</b>	1.32 (0.58; 2.34)	0.51	0.43	38.13 (11.77; 68.21)	40.57	14.63 (7.55; 22.58)
BR6b	3	<b>0.70</b>	1.34 (0.42; 2.42)	0.44	0.36	37.20 (12.73; 64.07)	40.57	17.14 (8.29; 25.78)
WITH MIN CHANGE = 1000mt								
BR5a	2	0.60	1.18 (0.44; 2.16)	0.45	0.38	41.33 (11.24; 75.38)	40.57	15.98 (8.95; 26.12)
BR5b	3	0.60	1.16 (0.25; 2.22)	0.38	0.29	41.17 (12.99; 71.21)	40.57	18.31 (10.03; 26.66)
BR6a	2	0.70	1.32 (0.58; 2.34)	0.51	0.43	38.08 (10.95; 68.21)	40.57	15.18 (7.68; 25.78)
BR6b	3	0.70	1.34 (0.41; 2.43)	0.44	0.36	37.28 (12.65; 64.07)	40.57	17.57 (8.33; 27.37)
Percentage change								
BR5a	2	0.00	-0.85 (0.00; -0.47)	0.00	0.00	0.22 (-8.54; -0.04)	0.00	-2.44 (-2.52; -14.76)
BR5b	3	0.00	0.85 (0.00; 0.00)	0.00	3.33	0.00 (-1.59; 0.00)	0.00	-1.95 (-0.30; -3.70)
BR6a	2	0.00	0.00 (0.00; 0.00)	0.00	0.00	0.13 (-6.97; 0.00)	0.00	-3.76 (-1.72; -14.17)
BR6b	3	0.00	0.00 (2.38; -0.41)	0.00	0.00	-0.22 (-0.63; 0.00)	0.00	-2.51 (-0.48; -6.17)
<b>WEST</b>								
New package - 0.6 vs 0.7 PKG and 2 vs 3 yr intervals								
BR5a	2	<b>0.60</b>	1.25 (0.46; 2.37)	0.42	0.29	2.43 (0.90; 3.60)	2.69	8.81 (4.95; 21.38)
BR5b	3	<b>0.60</b>	1.28 (0.38; 2.40)	0.40	0.27	2.40 (0.94; 3.53)	2.69	10.37 (5.51; 24.16)
BR6a	2	<b>0.71</b>	1.41 (0.54; 2.53)	0.45	0.30	2.20 (0.87; 3.27)	2.69	8.21 (4.72; 21.07)
BR6b	3	<b>0.70</b>	1.45 (0.46; 2.57)	0.43	0.28	2.18 (0.91; 3.20)	2.69	9.75 (5.20; 24.86)
WITH MIN CHANGE = 100mt								
BR5a	2	<b>0.60</b>	1.25 (0.46; 2.37)	0.42	0.28	2.44 (0.81; 3.61)	2.73	10.00 (4.70; 30.00)
BR5b	3	<b>0.61</b>	1.27 (0.38; 2.40)	0.40	0.26	2.41 (0.91; 3.54)	2.73	10.95 (4.79; 28.94)
BR6a	2	<b>0.71</b>	1.42 (0.55; 2.53)	0.45	0.29	2.20 (0.81; 3.27)	2.73	9.61 (4.28; 30.00)
BR6b	3	<b>0.70</b>	1.44 (0.45; 2.58)	0.43	0.27	2.19 (0.91; 3.20)	2.73	10.97 (4.40; 30.00)
Percentage change								
BR5a	2	0.00	0.00 (0.00; 0.00)	0.00	3.45	-0.41 (-0.00; -0.28)	-1.49	-13.51 (5.05; -40.32)
BR5b	3	-1.67	0.78 (0.00; 0.00)	0.00	3.70	-0.42 (-0.19; -0.28)	-1.49	-5.59 (13.07; -19.78)
BR6a	2	0.00	-0.71 (-1.85; 0.00)	0.00	3.33	0.00 (-5.90; 0.00)	-1.49	-17.05 (9.32; -42.38)
BR6b	3	0.00	0.69 (2.17; -0.39)	0.00	3.57	-0.46 (0.00; 0.00)	-1.49	-12.51 (15.38; -20.68)

# Pourcentage d'années pour lesquelles la variation du TAC est supérieure à 30% (pour 60% PGK et +20/-35)

	E	W
BR5c	6,5%	1,9%
FO5c	6,3%	4,8%
TC5c	2,0%	0,6%
LW5c	7,4%	4,3%

East

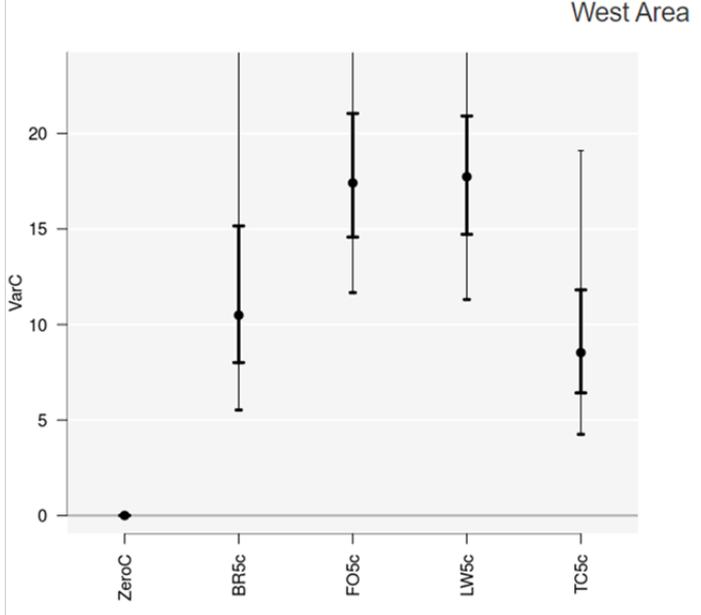
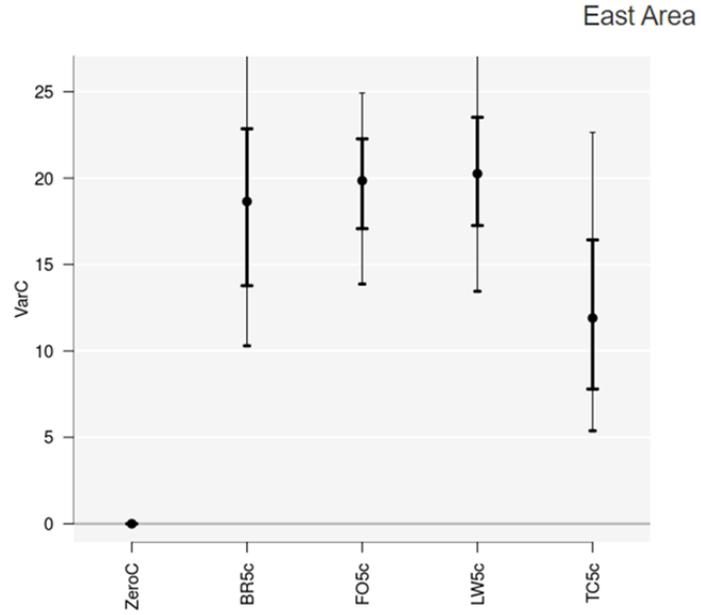
CSV Excel

	VarC 2.5 %	VarC 50 %	VarC 97.5 %
ZeroC	0	0	0
BR5c	9.52	18.65	28.96
FO5c	12.97	19.85	25.97
LW5c	12.42	20.25	28.76
TC5c	4.67	11.9	23.85

West

CSV Excel

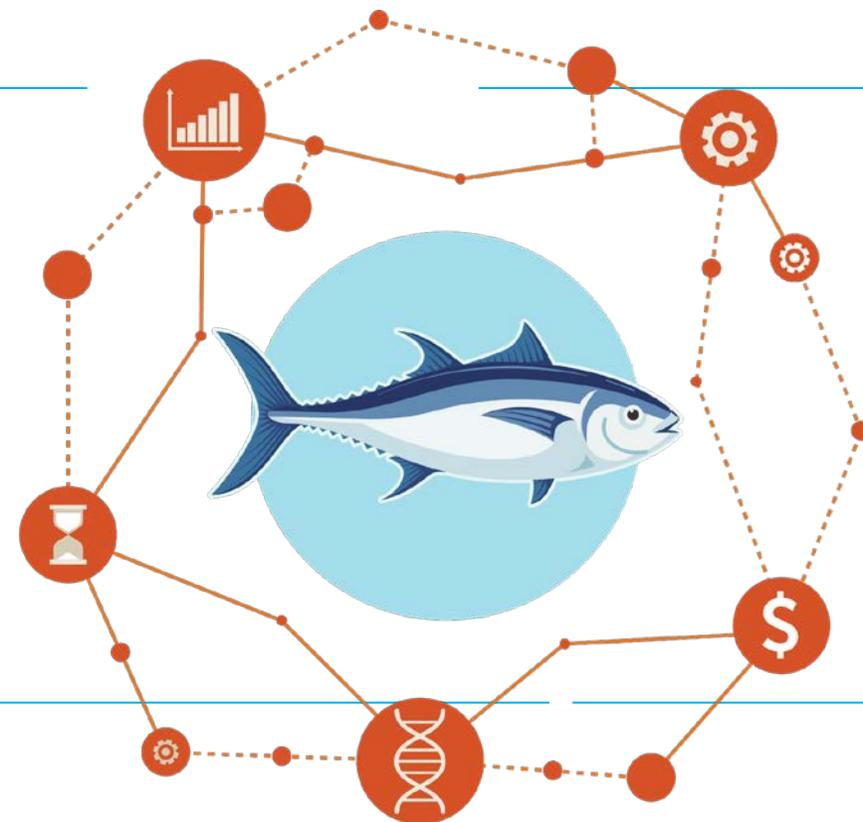
	VarC 2.5 %	VarC 50 %	VarC 97.5 %
ZeroC	0	0	0
BR5c	4.99	10.49	26.32
FO5c	10.87	17.41	26.64
LW5c	10.42	17.74	26.62
TC5c	3.72	8.53	21.19





# BFT Management Strategy Evaluation (MSE)

Additional material  
Panel 2 Intersessional  
14 October 2022



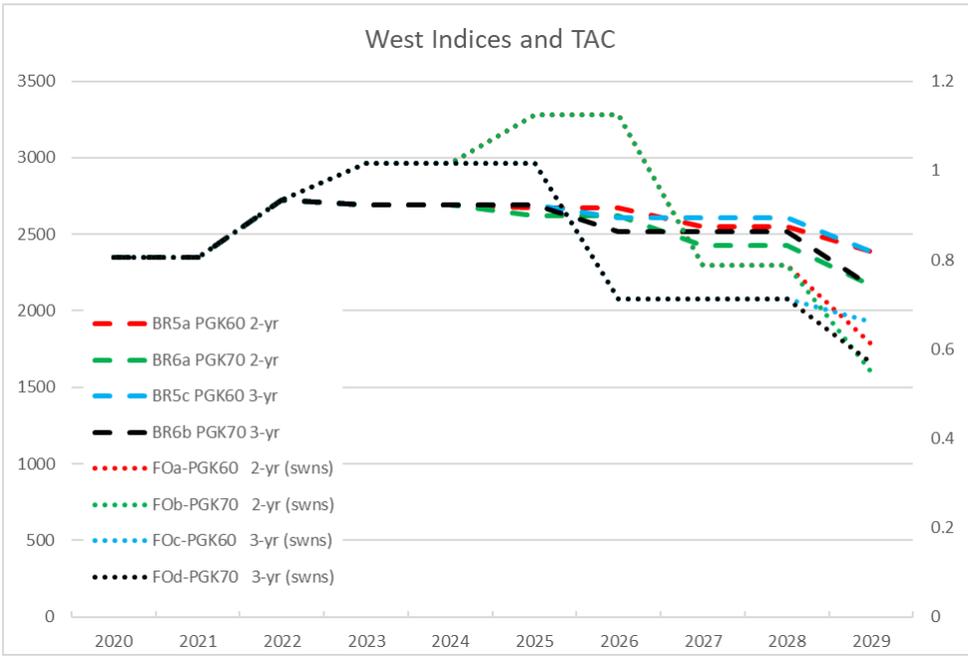
## References

1. [Splash Page: https://iccat.github.io/abft-mse/](https://iccat.github.io/abft-mse/) with Shiny Apps and quilt plots
2. Decision Guide ([PA2 BFT MSE OCT 02 ENG](#)) Atlantic Bluefin Tuna MSE – Final Results & Decision Guide Package
3. SCRS\_2022\_169. Results, features, and interpretations of the four remaining BFT MSE candidate management procedures

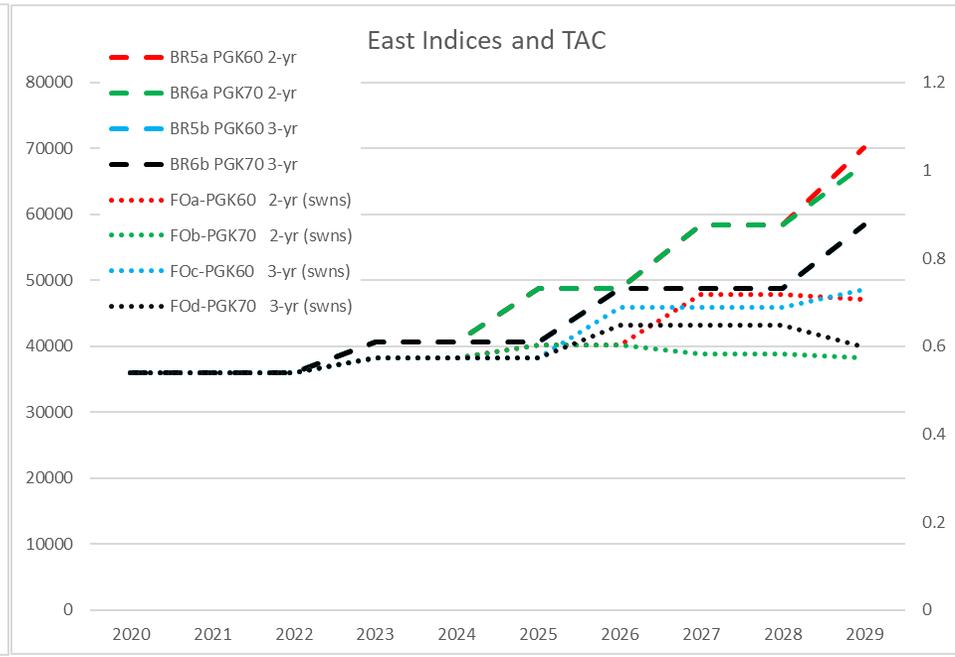
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# Constant indices

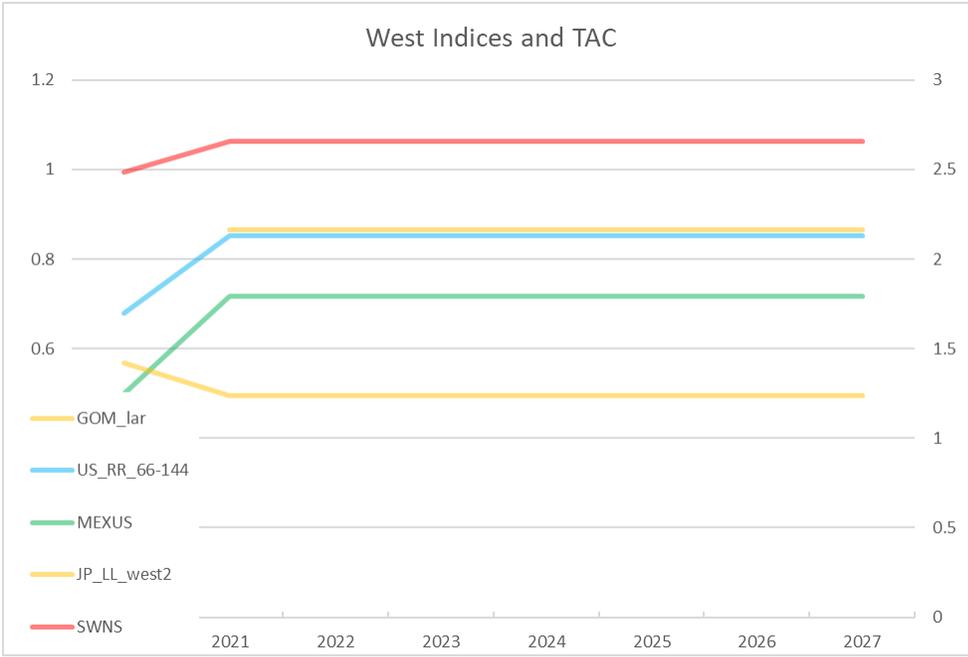
## West Indices and TAC



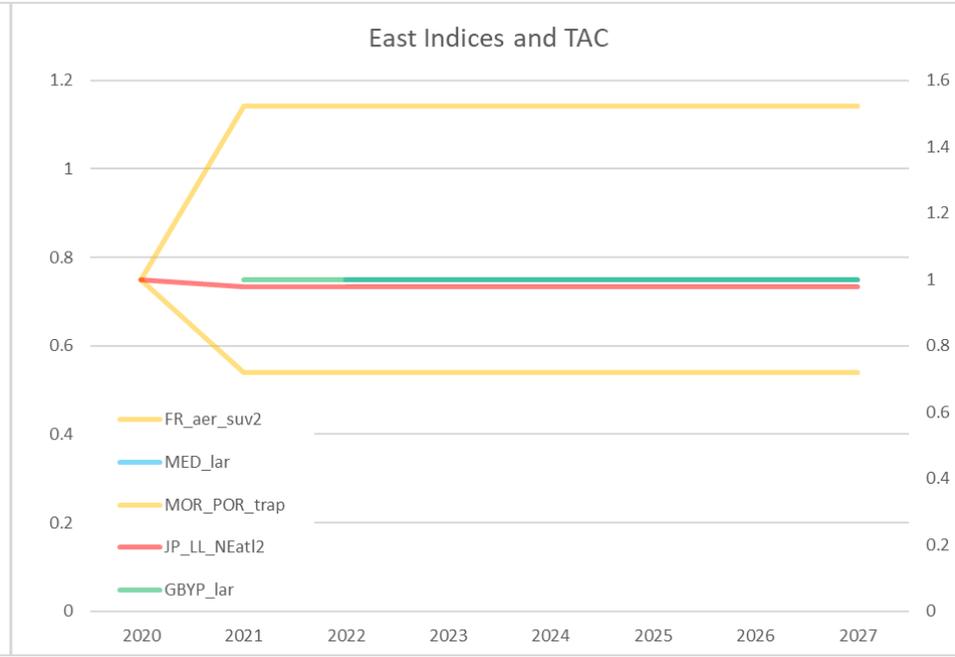
## East Indices and TAC



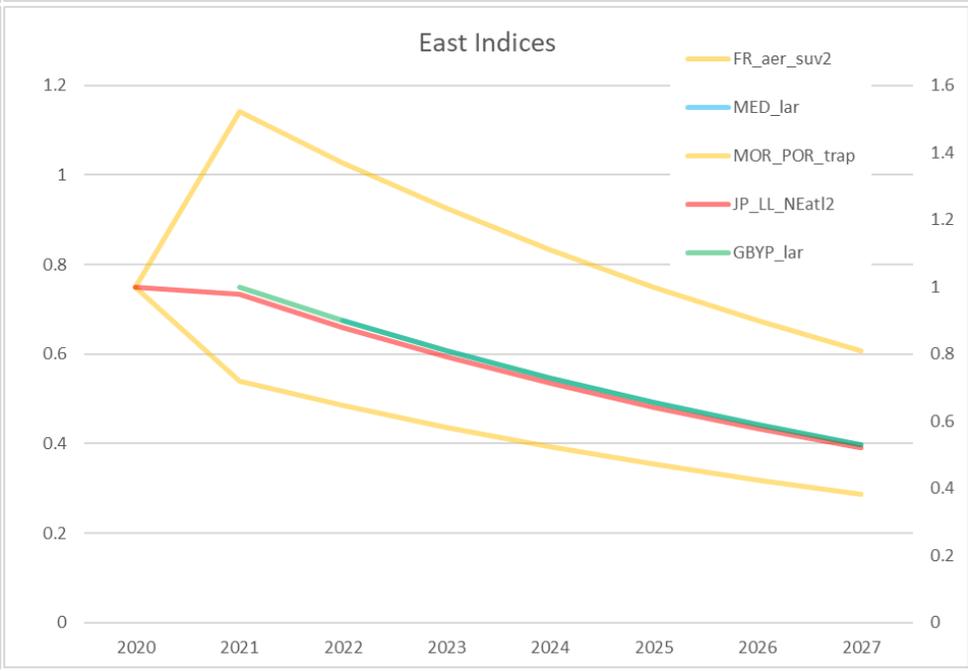
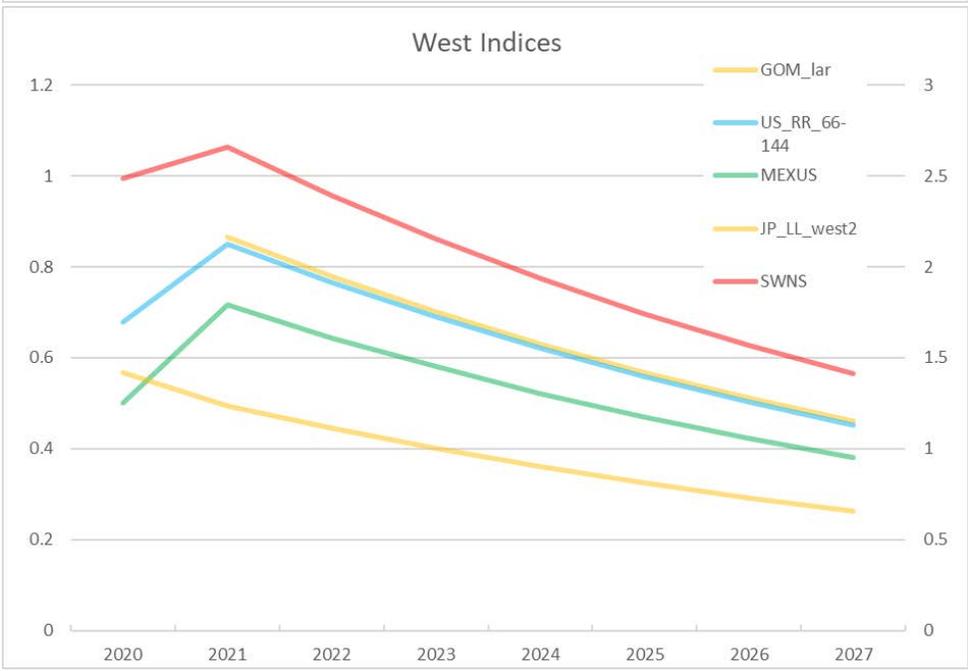
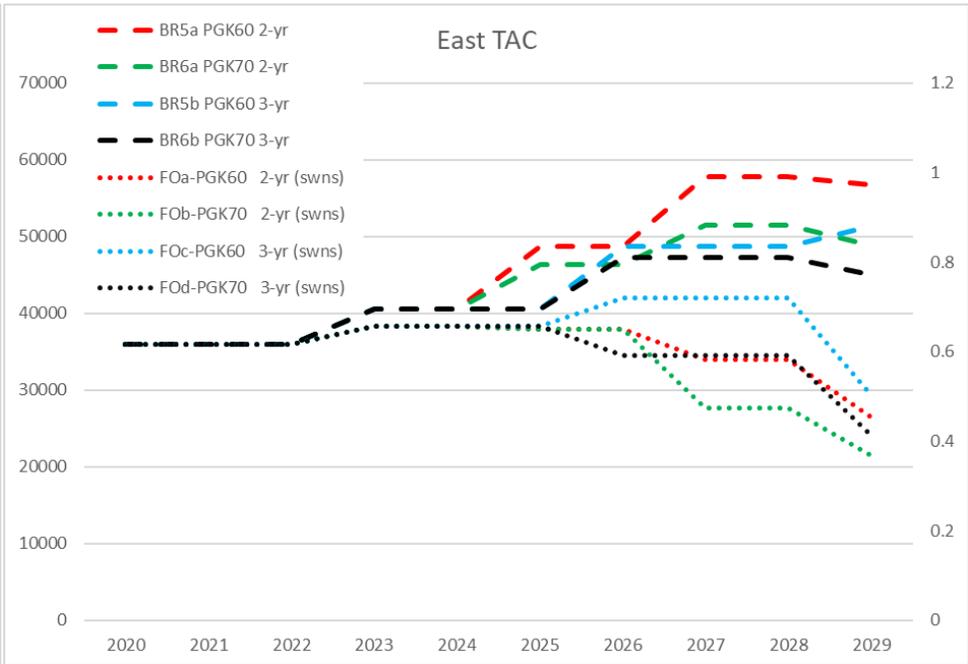
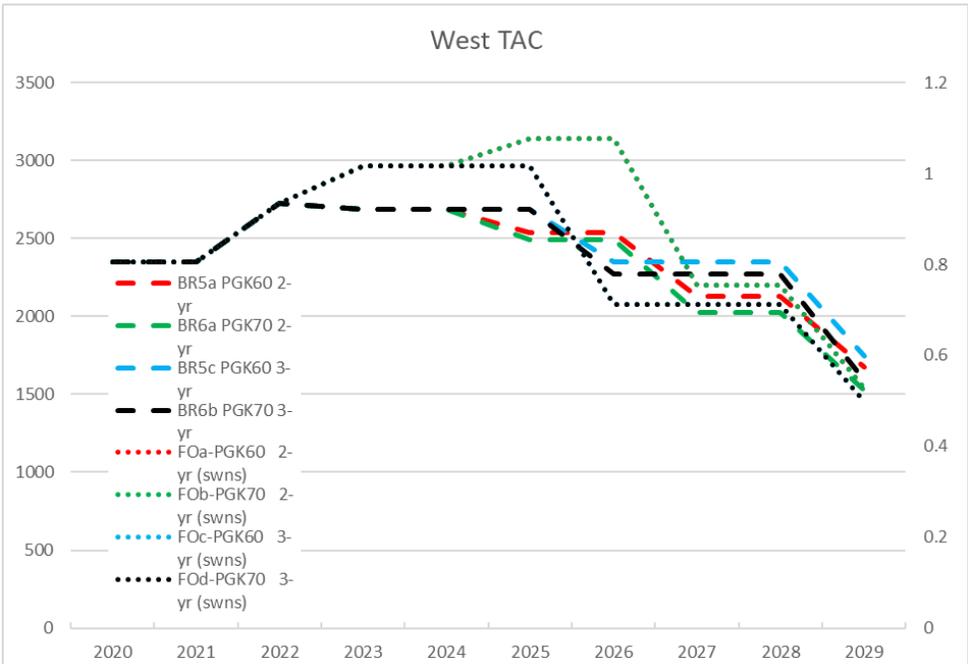
## West Indices and TAC



## East Indices and TAC

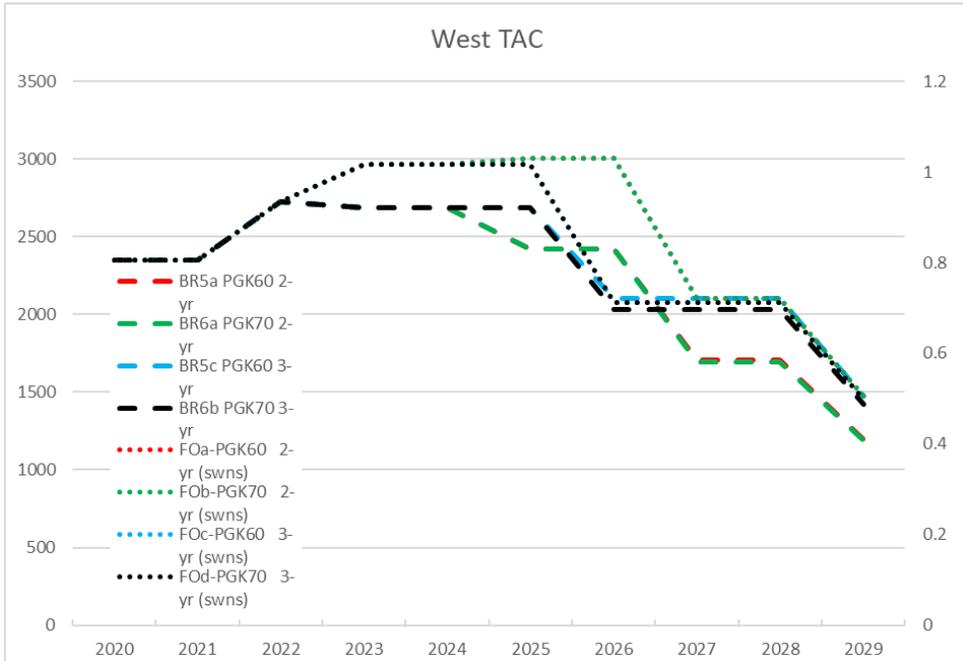


# Decreasing indices – 10% decrease each year

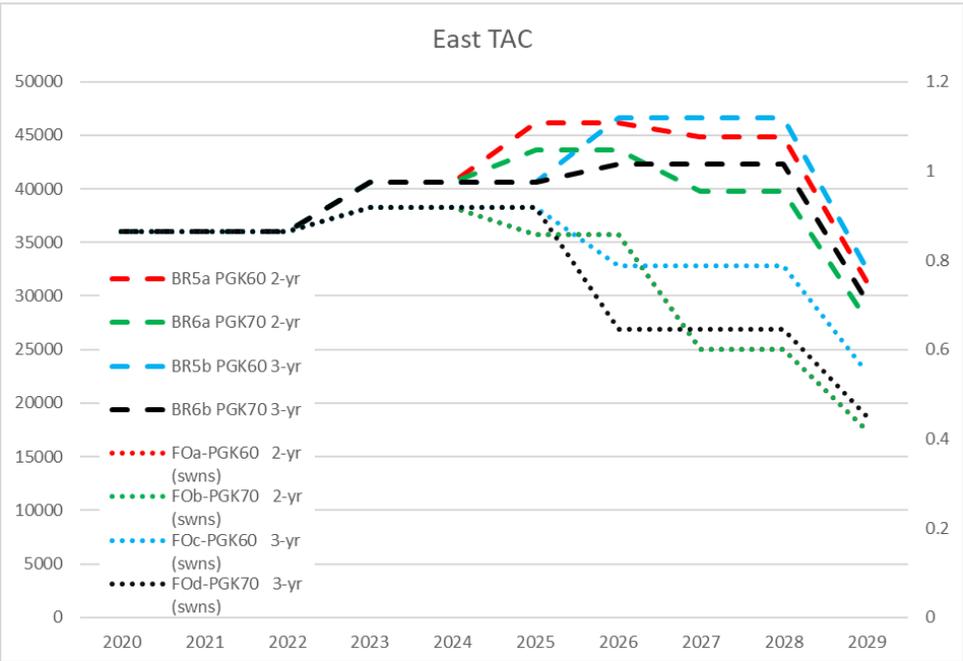


# Decreasing indices – 20% decrease each year

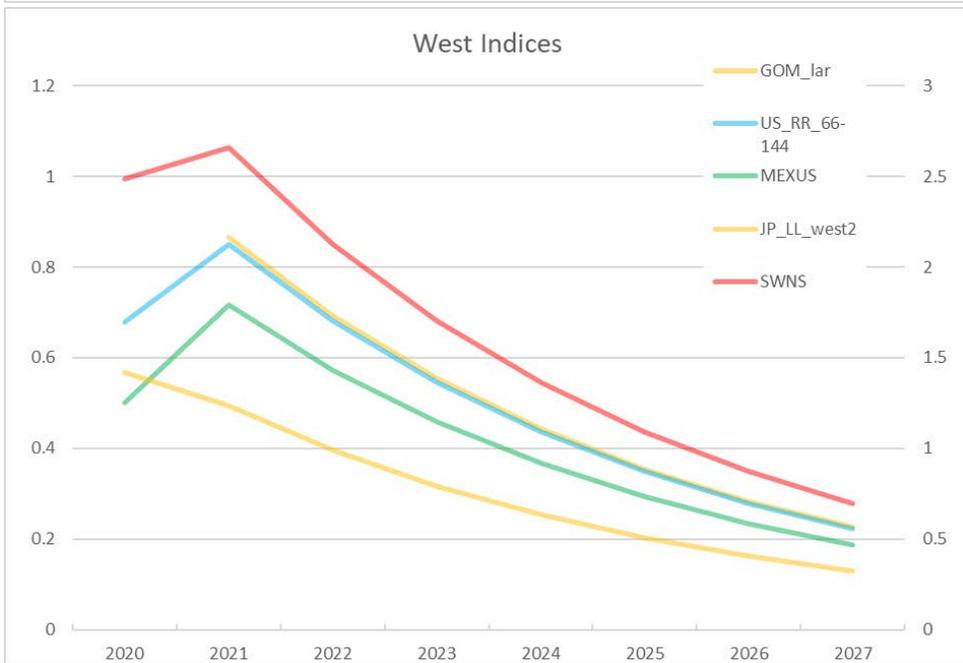
## West TAC



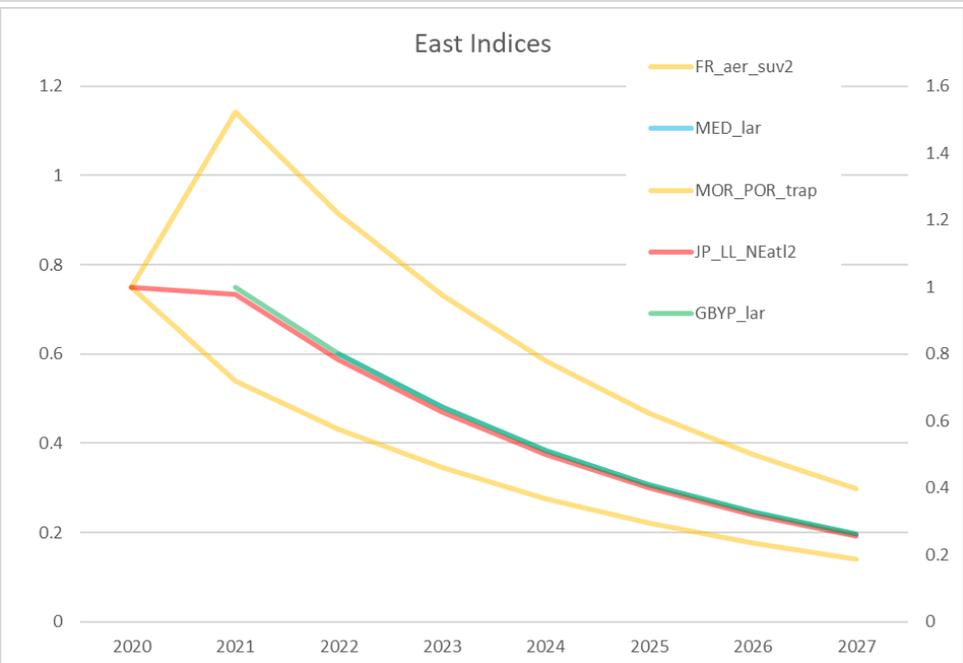
## East TAC



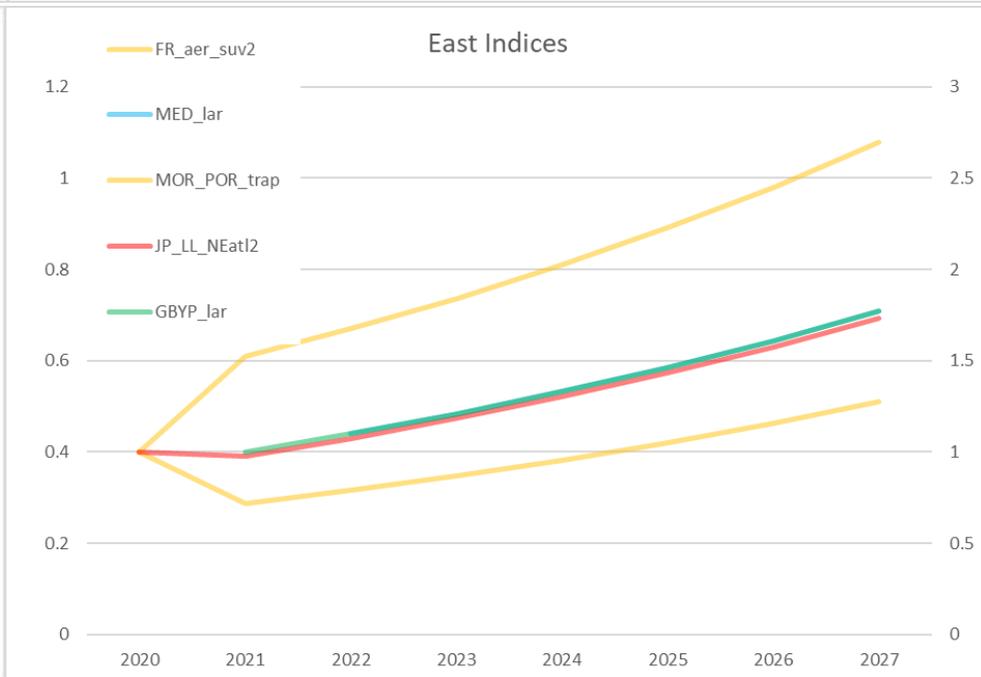
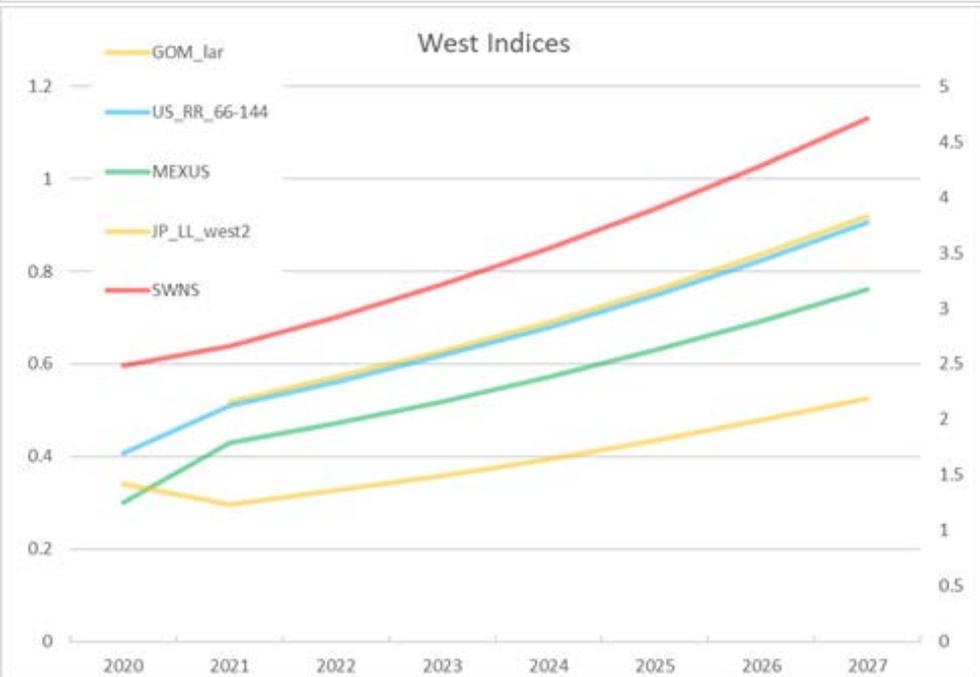
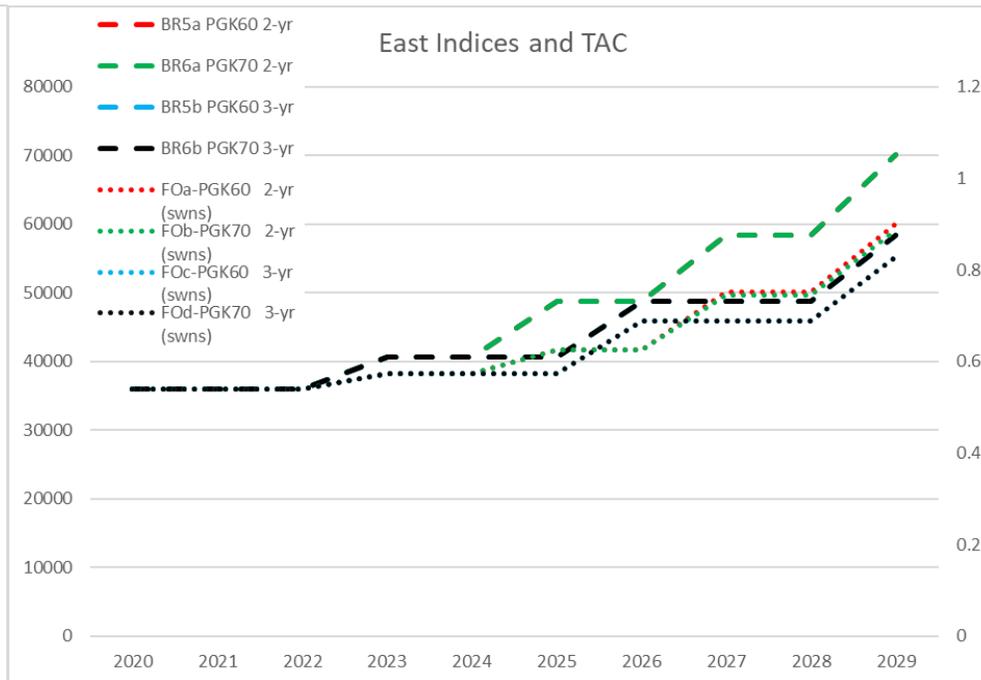
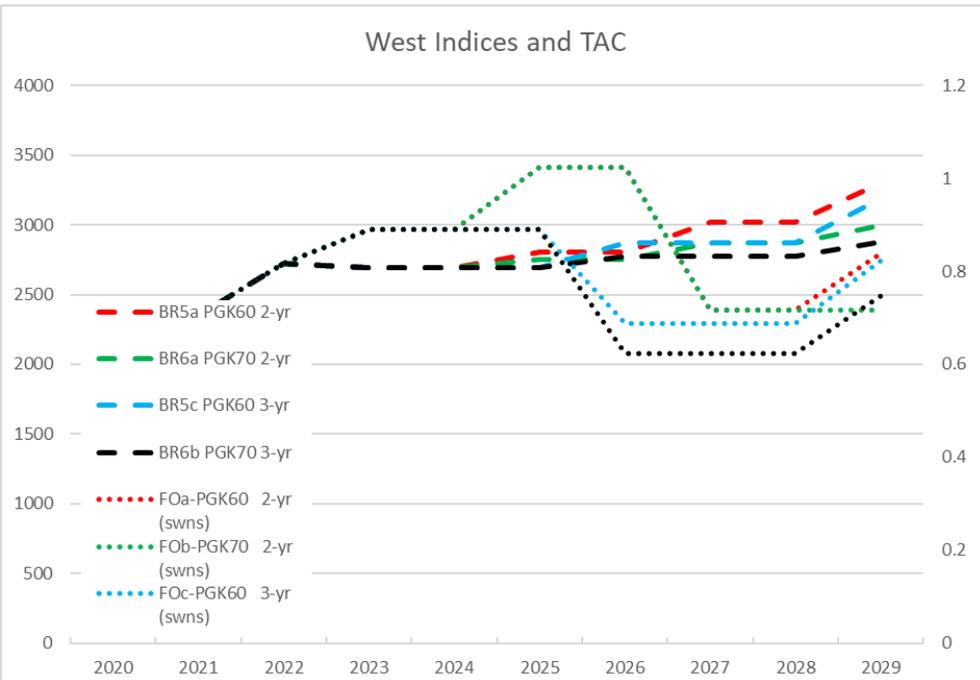
## West Indices



## East Indices

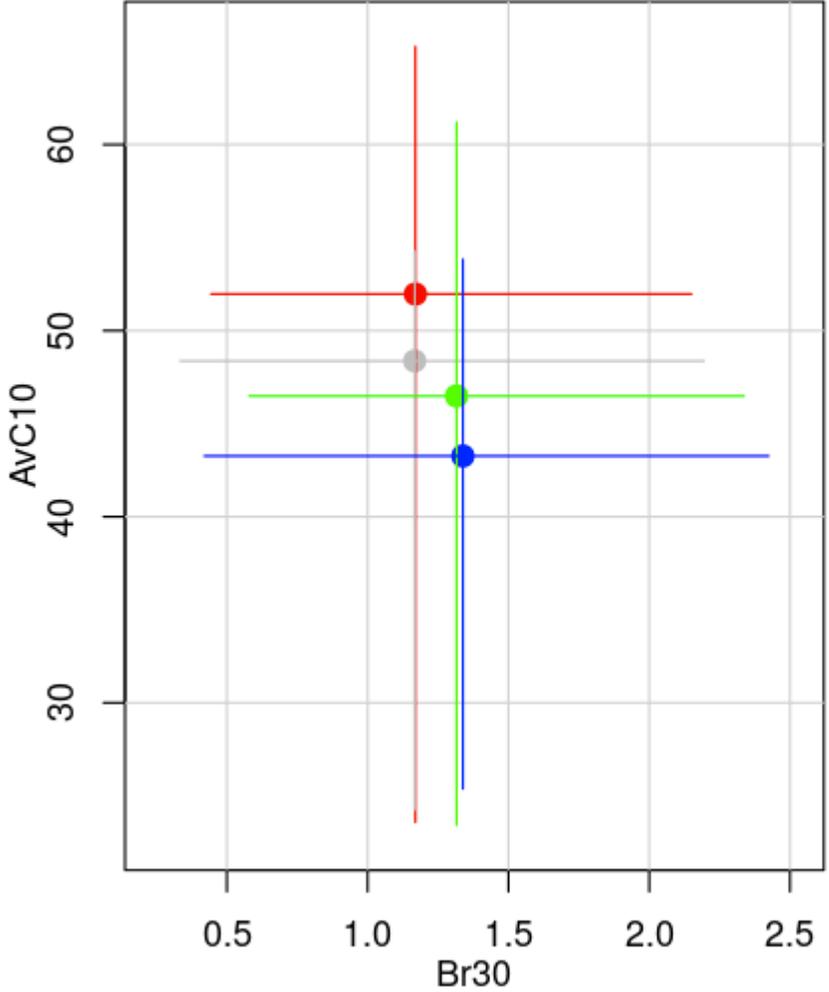


# Decreasing indices – 10% increase each year

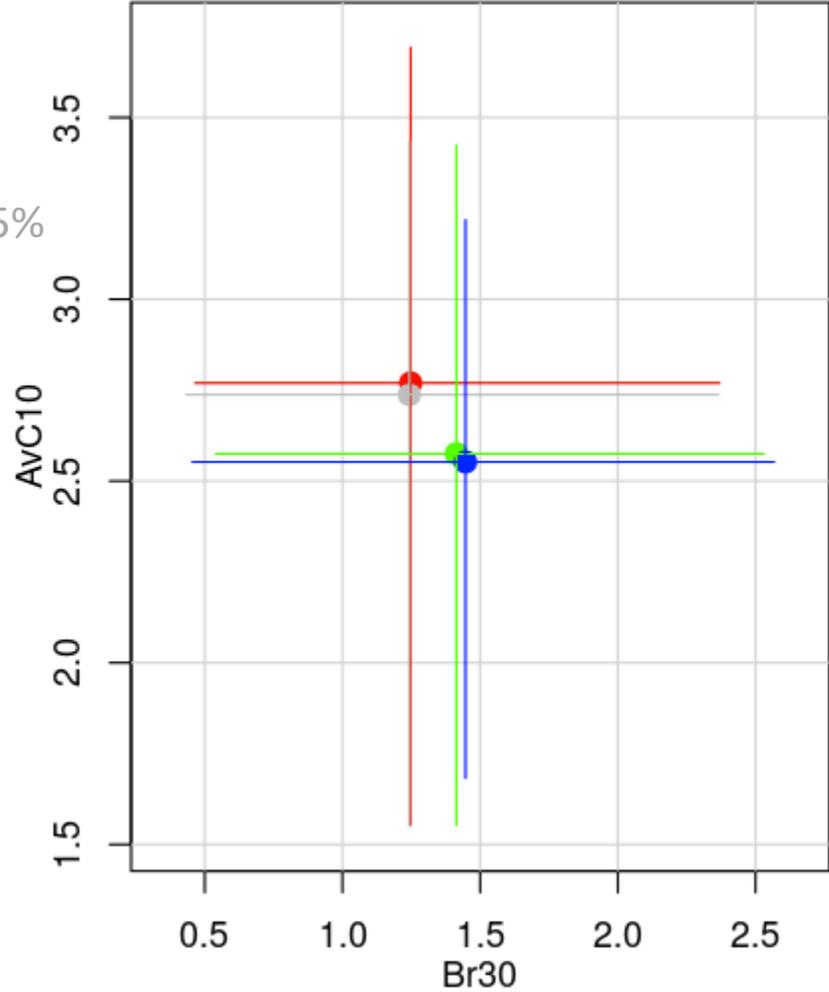


# Compromis entre Br30 et AvC10 pour BR CMP

## East



## West

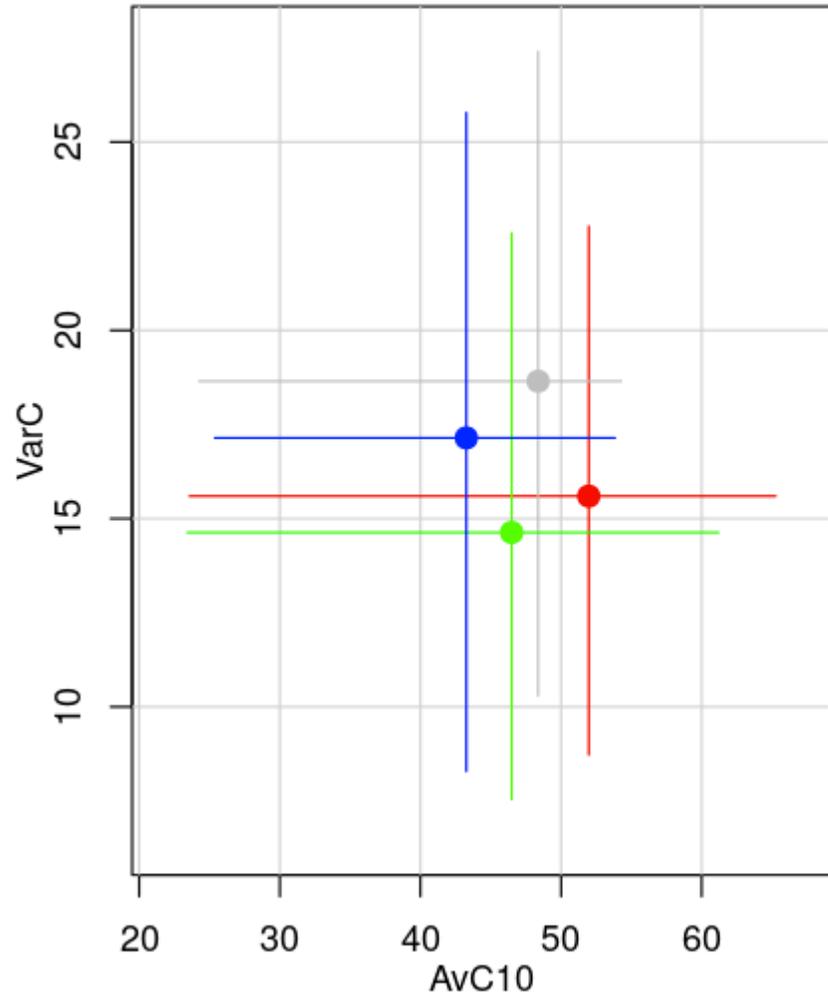


PGK60, 2-yr  
PGK60, 3-yr, -35%  
PGK70, 2-yr  
PGK70, 3-yr

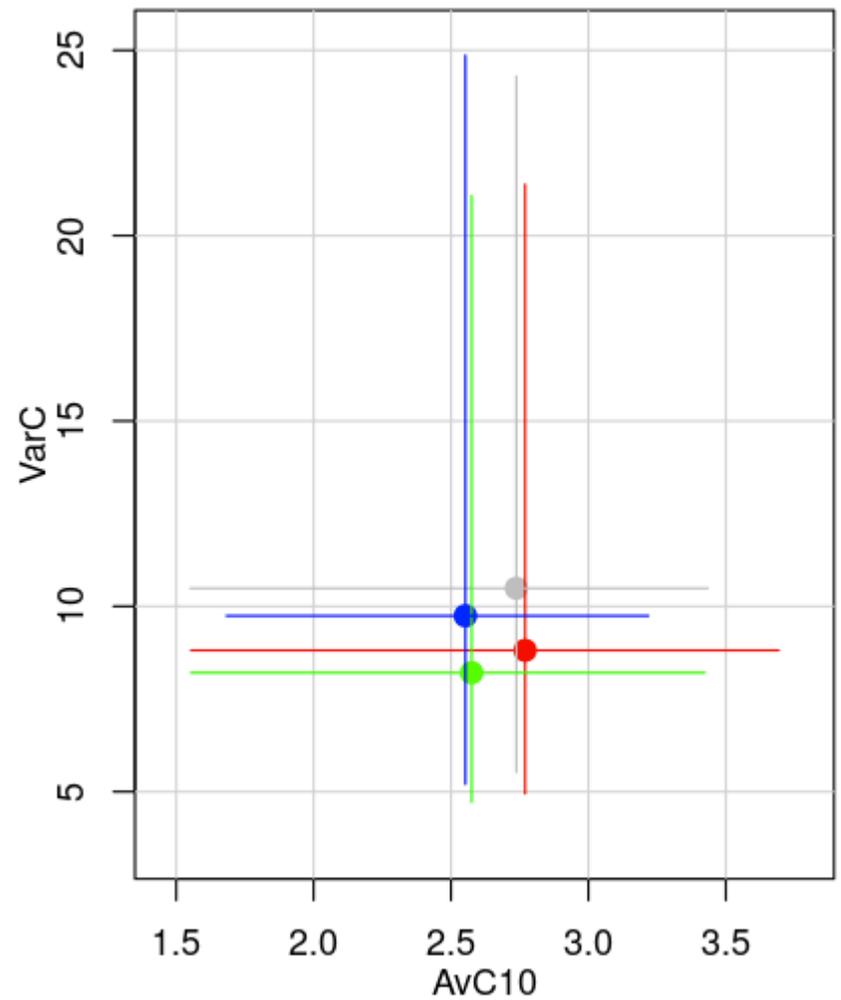
BR5a  
BR5c  
BR6a  
BR6b

# Compromis entre AvC10 et VarC pour BR CMP

## East



## West

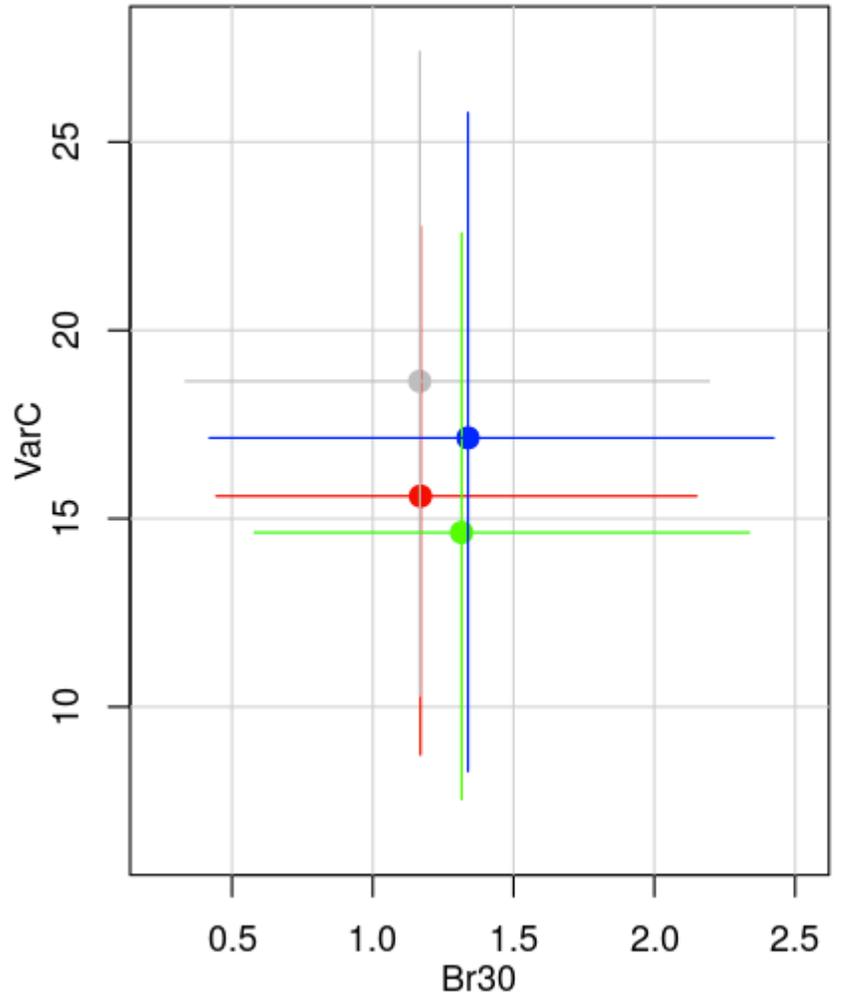


PGK60, 2-yr  
PGK60, 3-yr, -35%  
PGK70, 2-yr  
PGK70, 3-yr

BR5a  
BR5c  
BR6a  
BR6b

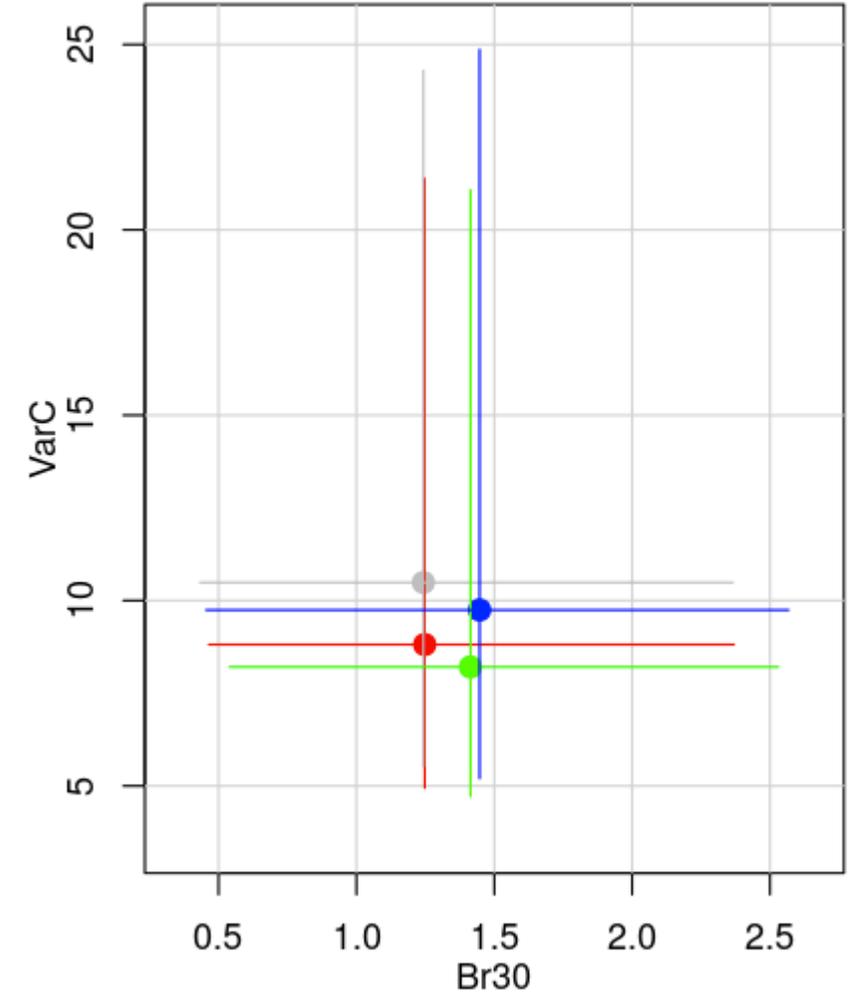
# Compromis entre Br30 et VarC pour BR CMP

## East



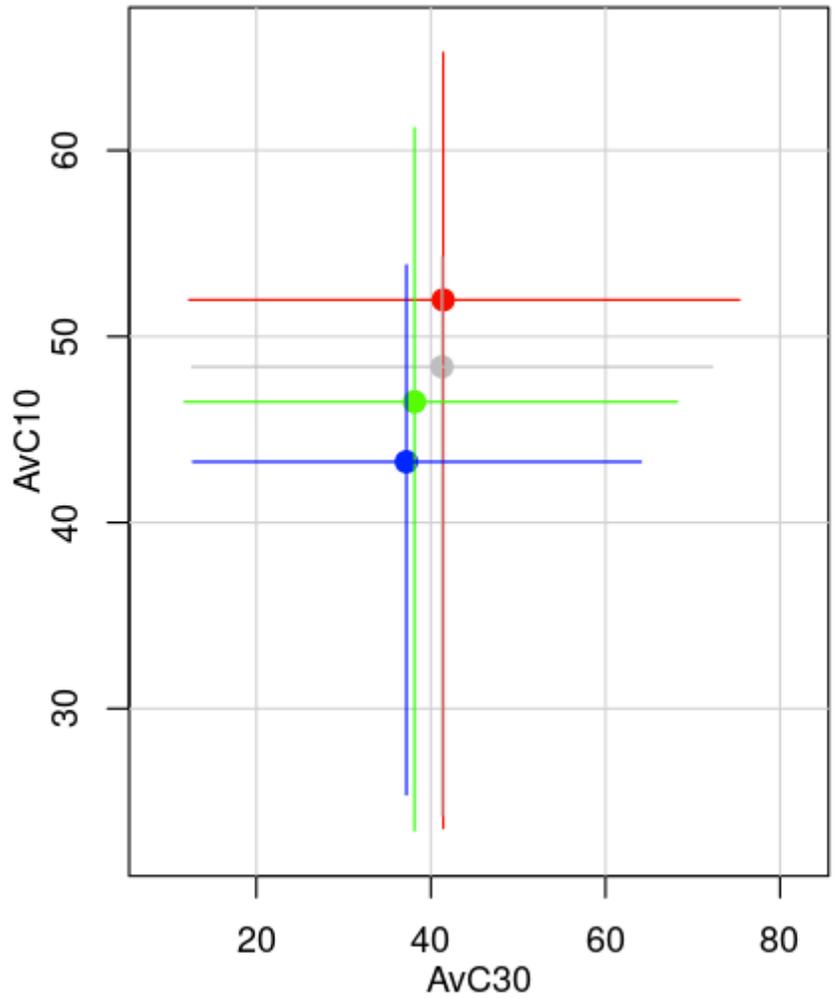
- PGK60, 2-yr
- PGK60, 3-yr, -35%
- PGK70, 2-yr
- PGK70, 3-yr
  
- BR5a
- BR5c
- BR6a
- BR6b

## West



# Compromis entre AvC30 et AvC10 pour BR CMP

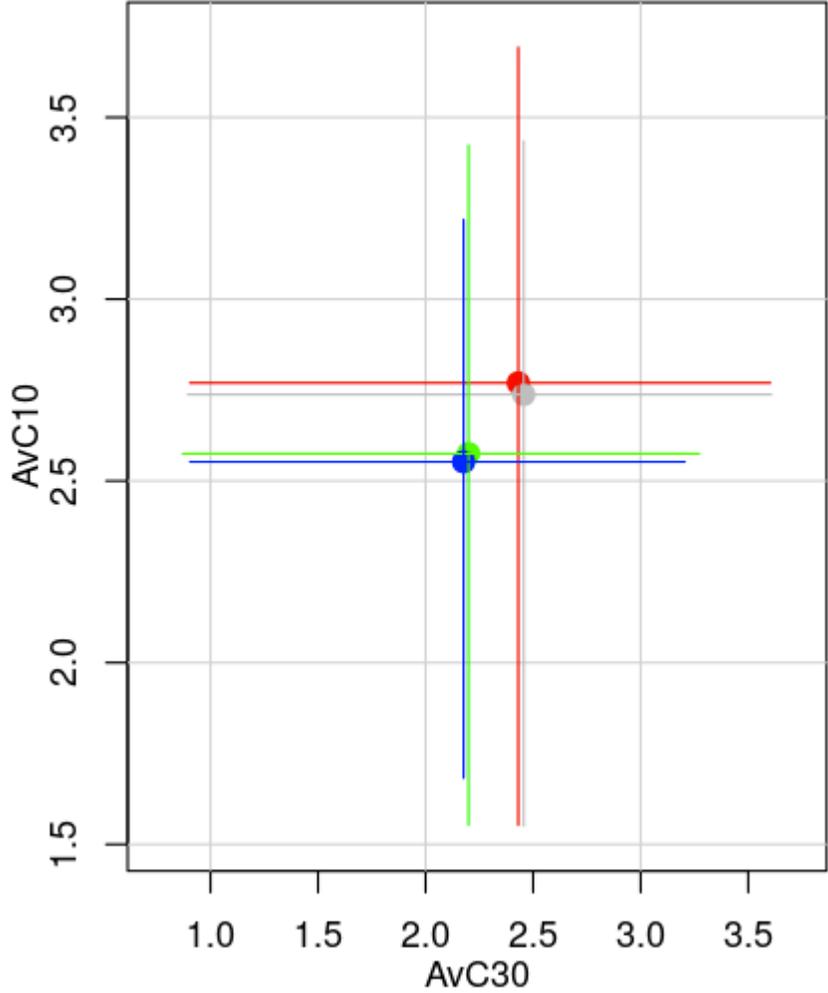
### East



PGK60, 2-yr  
PGK60, 3-yr, -35%  
PGK70, 2-yr  
PGK70, 3-yr

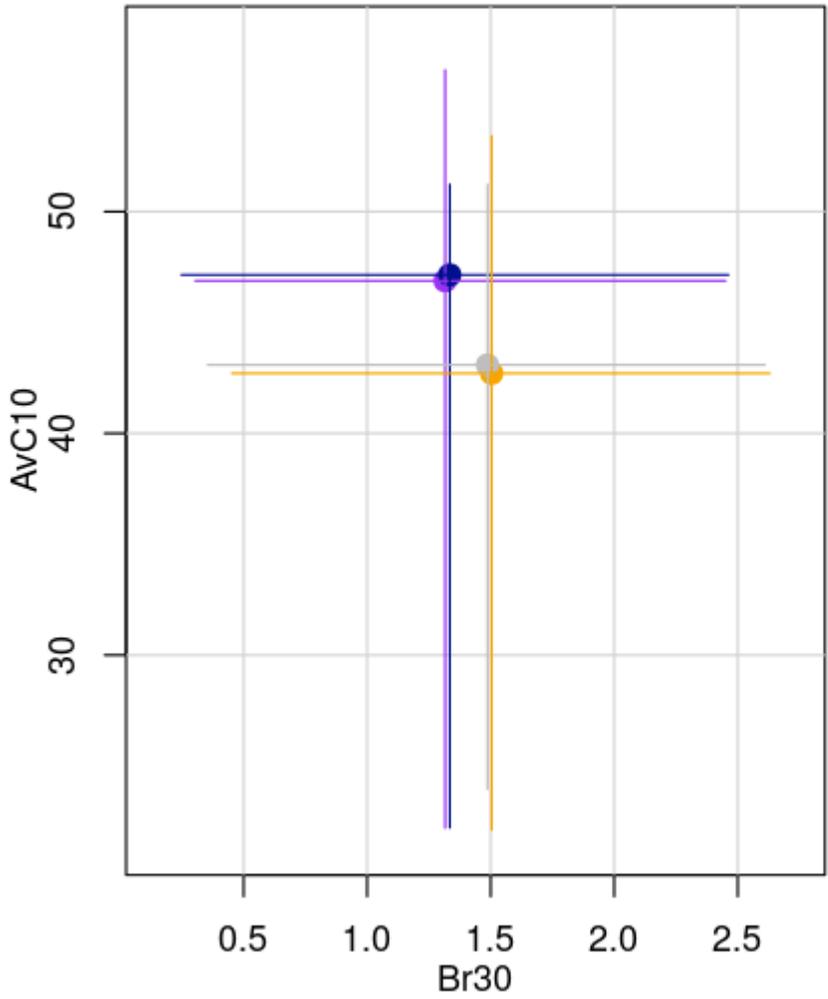
BR5a  
BR5c  
BR6a  
BR6b

### West



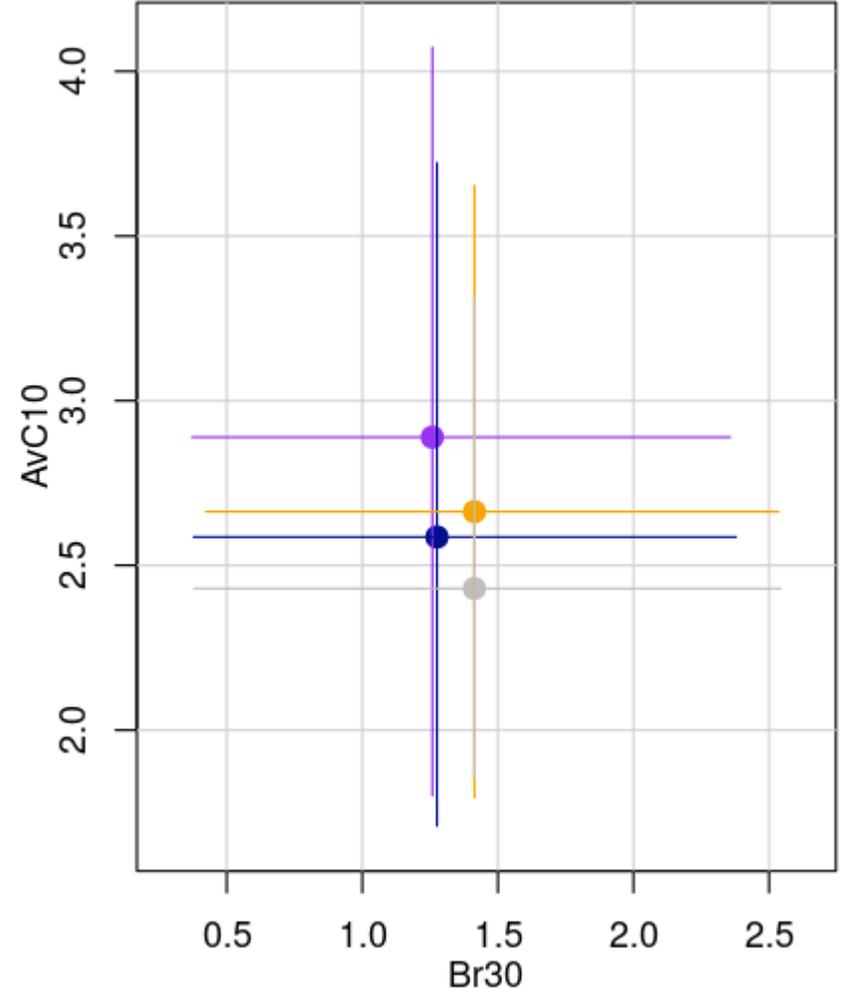
# Compromis Br30 vs AvC10 pour FO CMP

## East



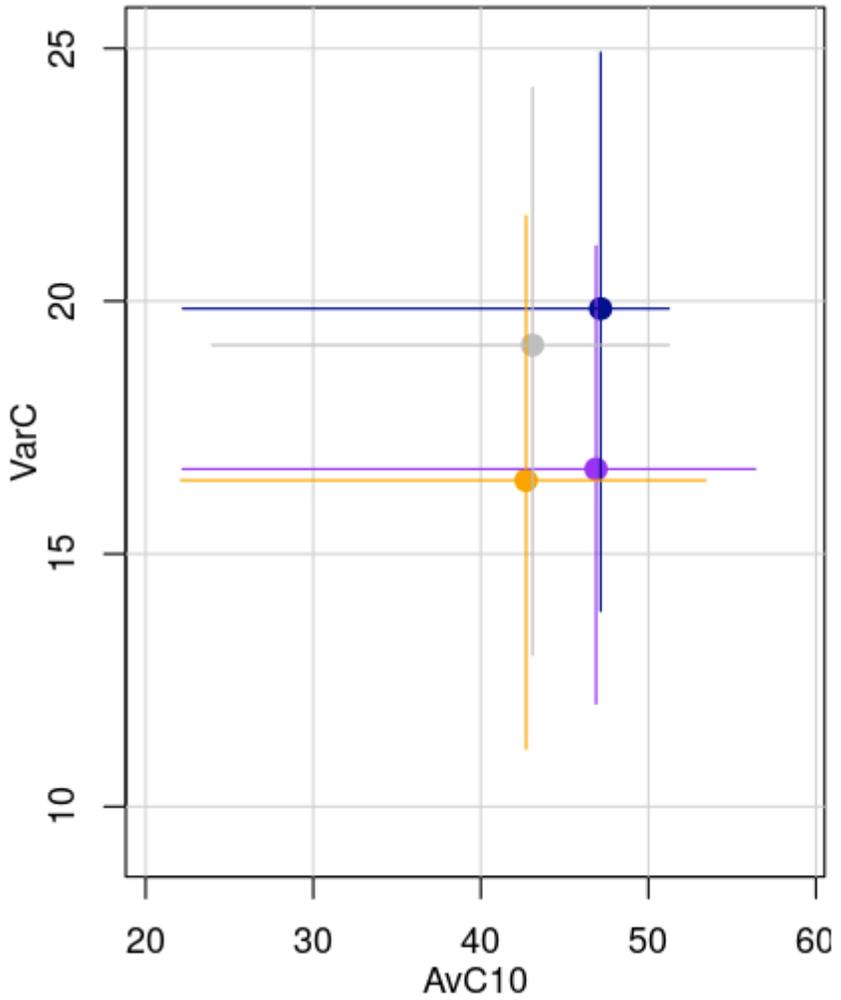
- PGK60, 2-yr
- PGK60, 3-yr, -35%
- PGK70, 2-yr
- PGK70, 3-yr
  
- FO5a
- FO5c
- FO6a
- FO6b

## West



# Compromis AvC10 vs VarC pour FO CMP

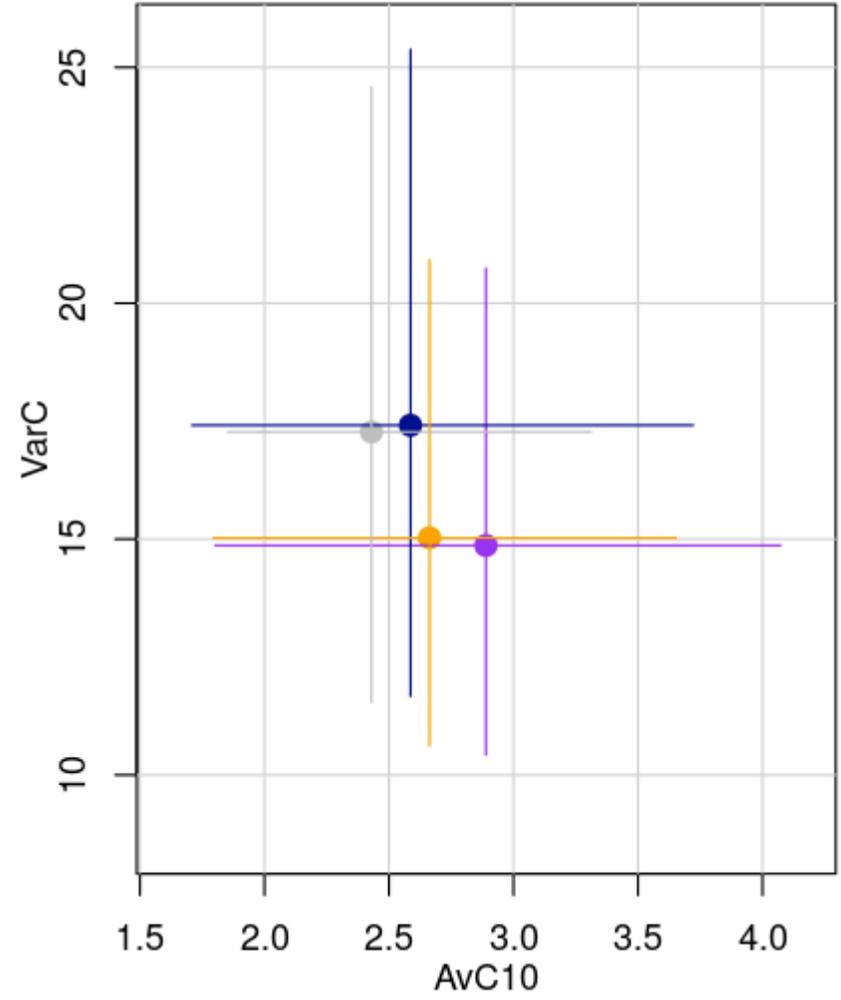
## East



PGK60, 2-yr  
PGK60, 3-yr, -35%  
PGK70, 2-yr  
PGK70, 3-yr

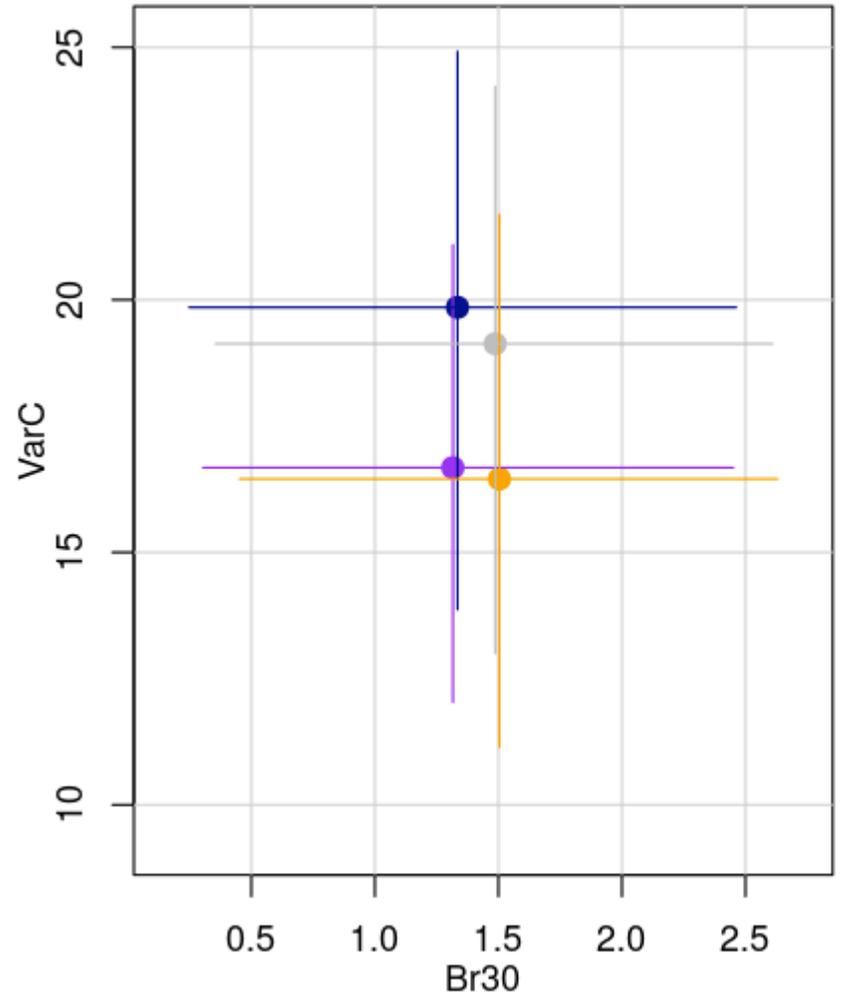
FO5a  
FO5c  
FO6a  
FO6b

## West

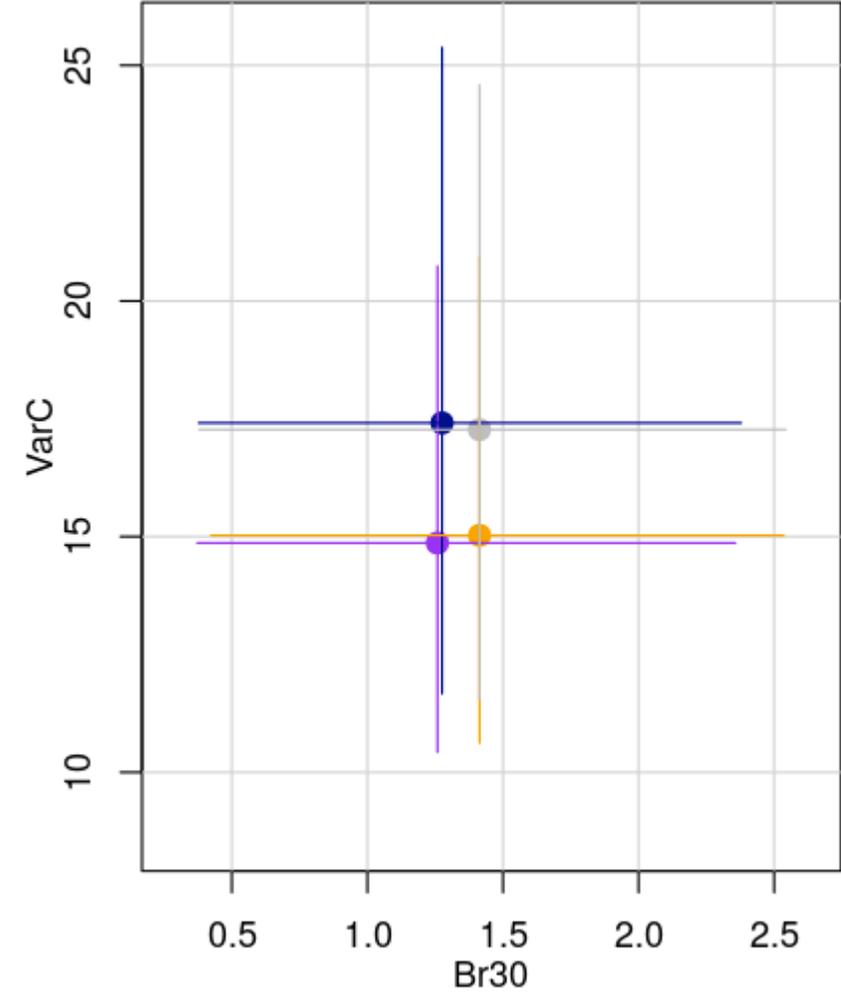


# Compromis Br30 vs VarC pour FO CMP

## East



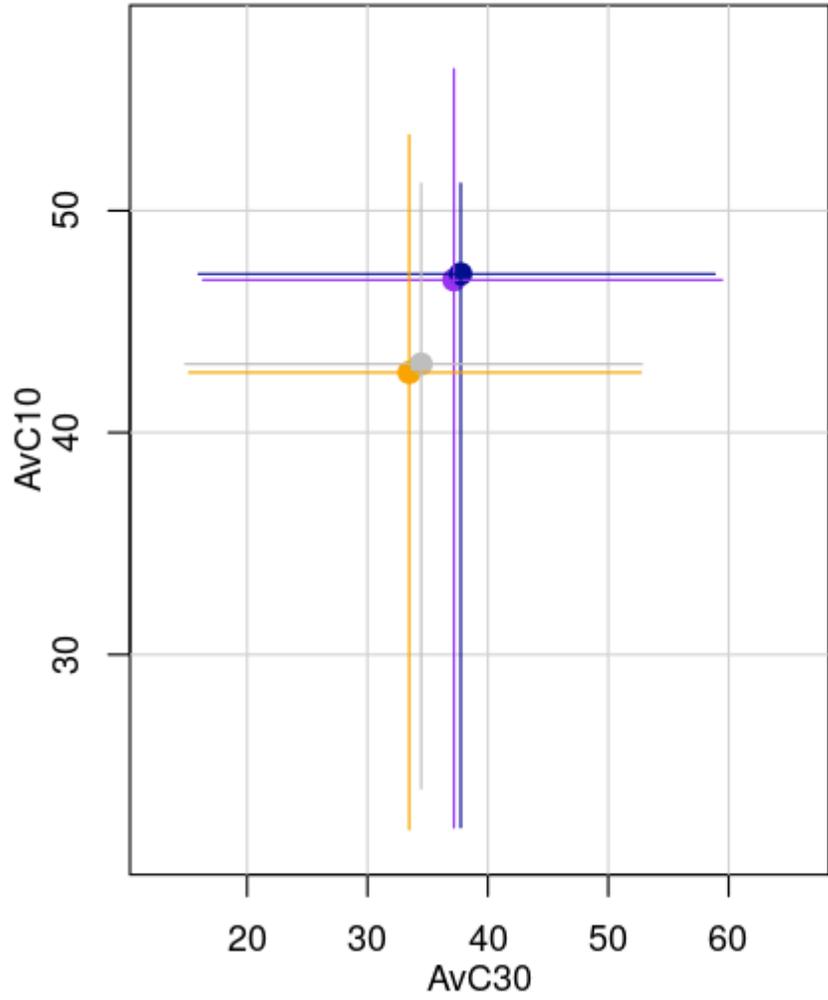
## West



- PGK60, 2-yr
- PGK60, 3-yr, -35%
- PGK70, 2-yr
- PGK70, 3-yr
  
- FO5a
- FO5c
- FO6a
- FO6b

# Compromis AvC30 vs AvC10 pour FO CMP

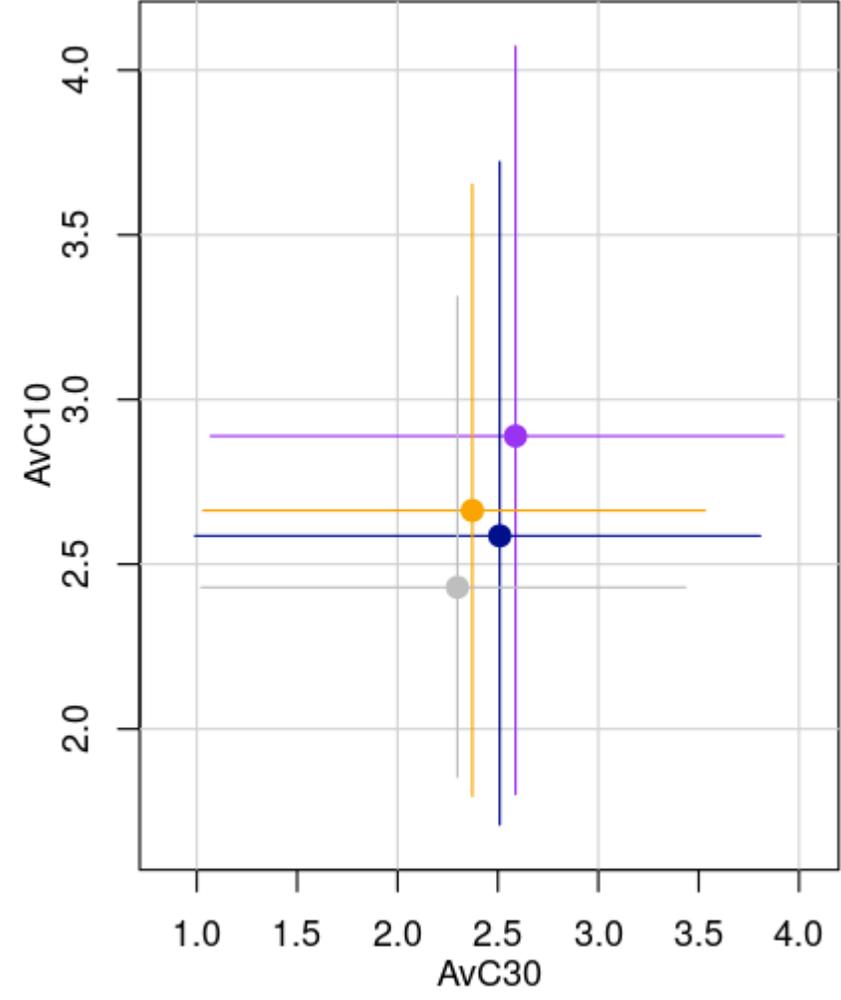
## East



PGK60, 2-yr  
PGK60, 3-yr, -35%  
PGK70, 2-yr  
PGK70, 3-yr

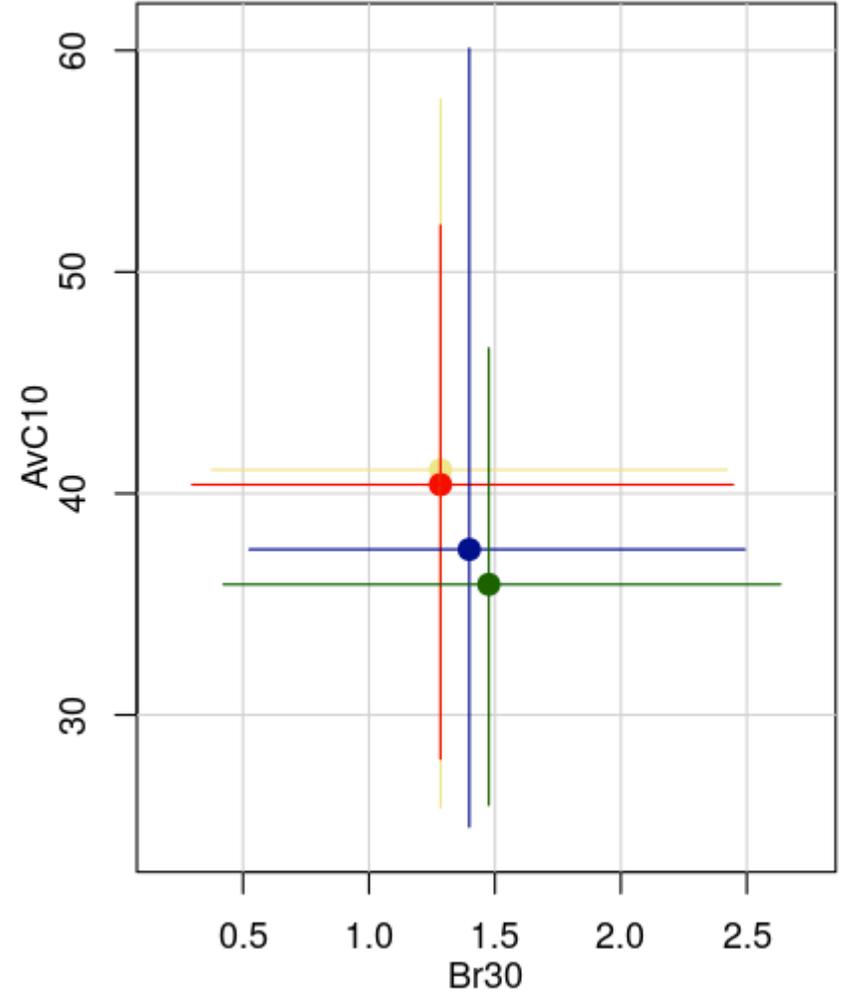
FO5a  
FO5c  
FO6a  
FO6b

## West



# Compromis entre Br30 et AvC10 pour TC CMP

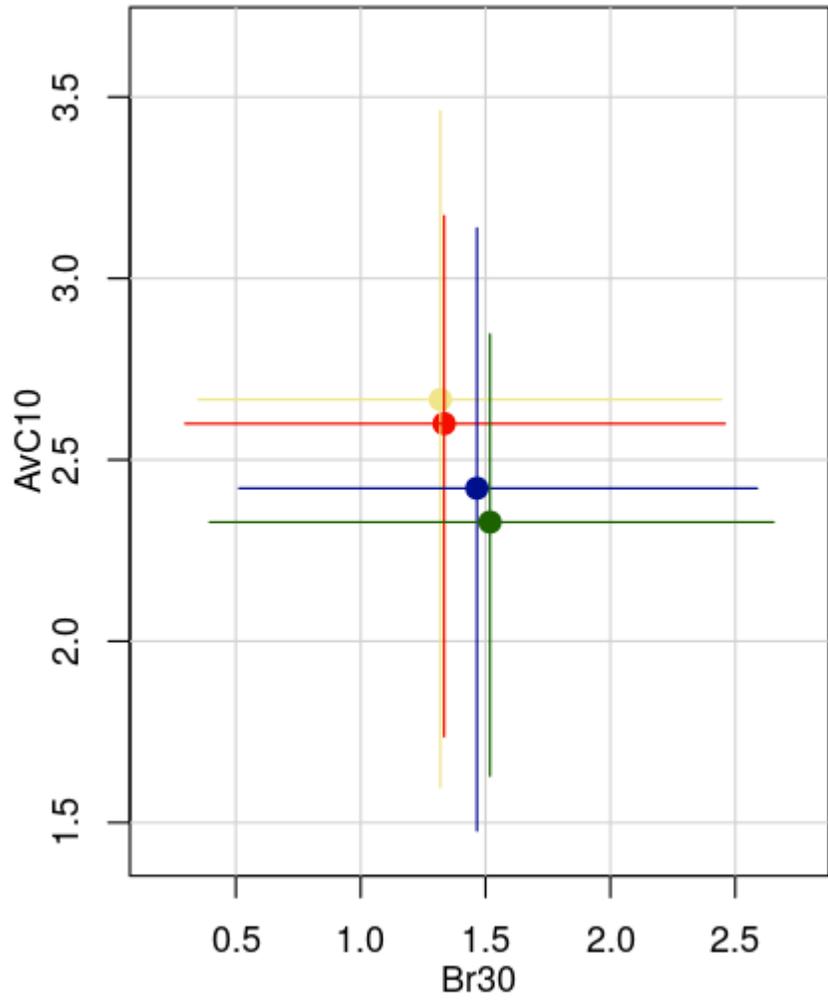
East



PGK60, 2-yr  
PGK60, 3-yr, -35%  
PGK70, 2-yr  
PGK70, 3-yr

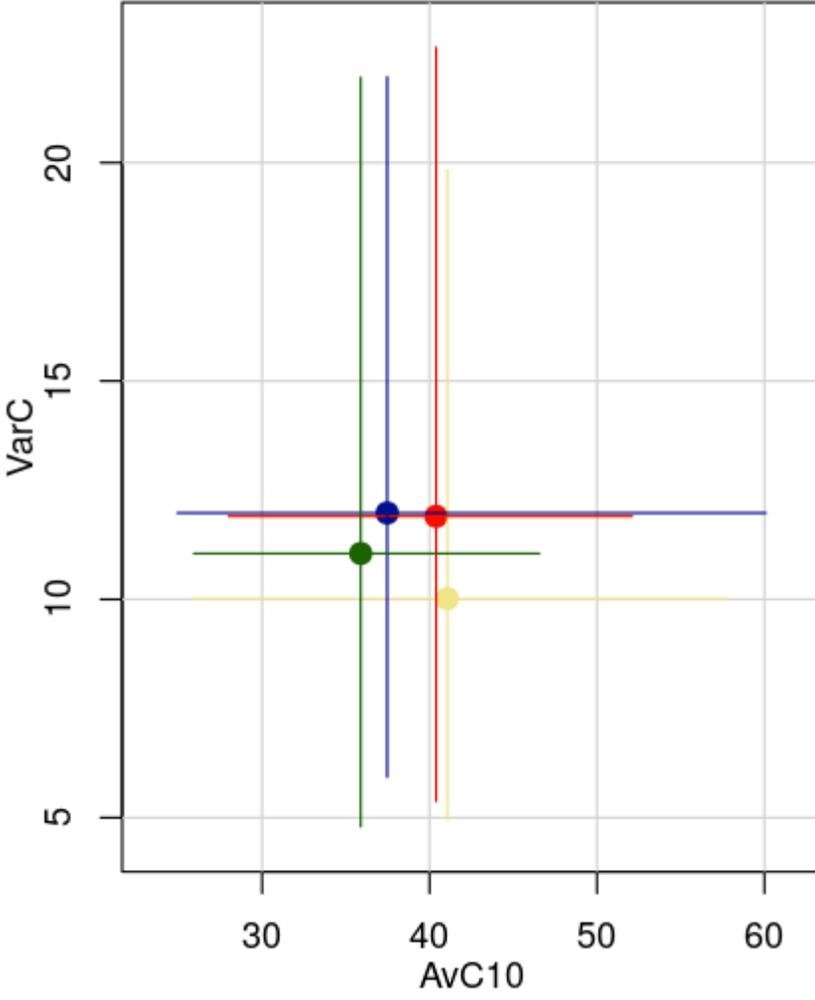
TC5a  
TC5c  
TK6a  
TC6b

West



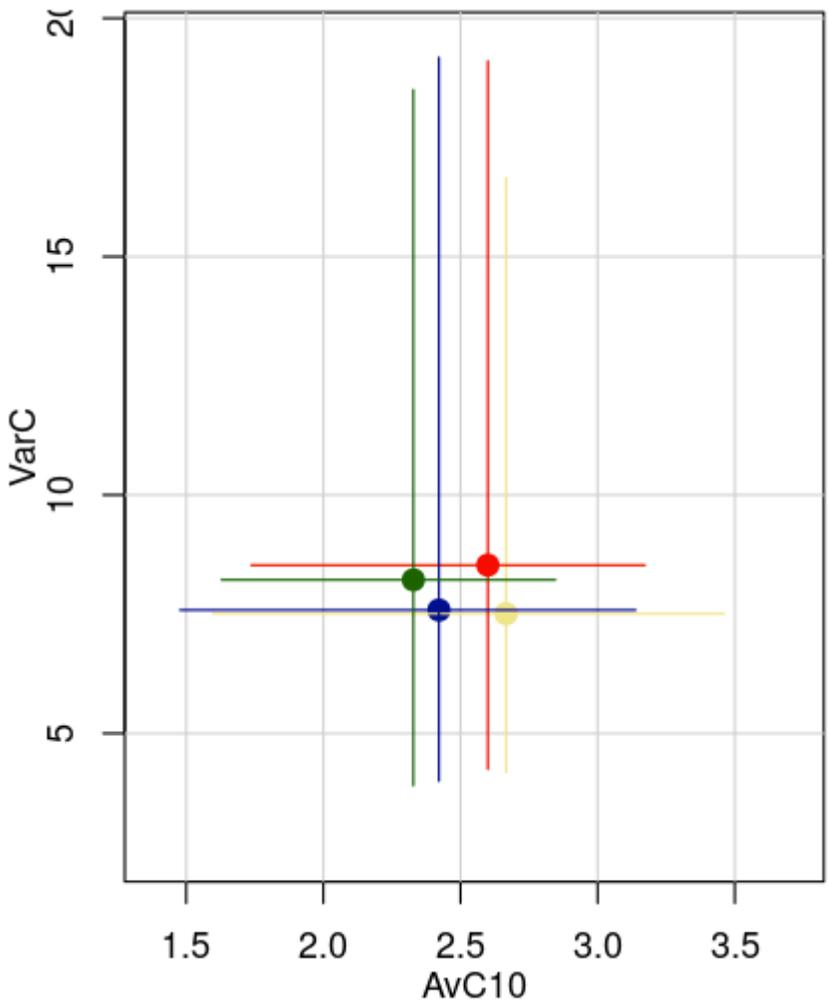
# Compromis entre AvC10 et VarC pour TC CMP

## East



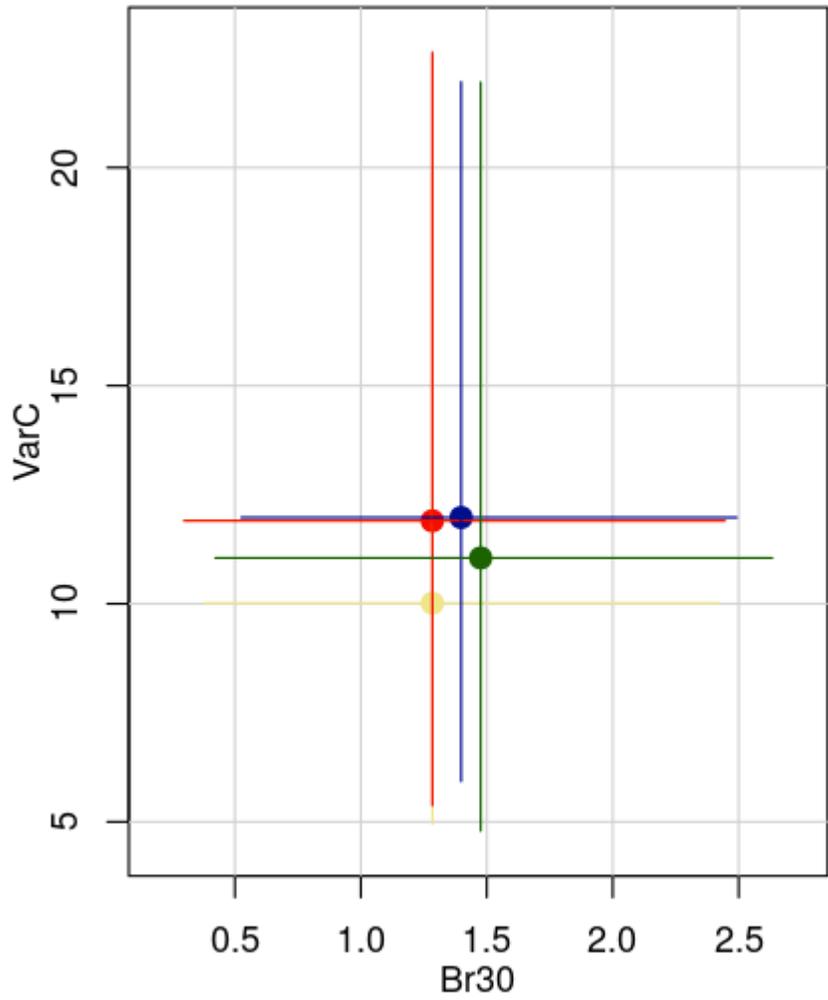
PGK60, 2-yr  
PGK60, 3-yr, -35%  
PGK70, 2-yr  
PGK70, 3-yr

## West



# Compromis Br30 vs VarC pour TC CMP

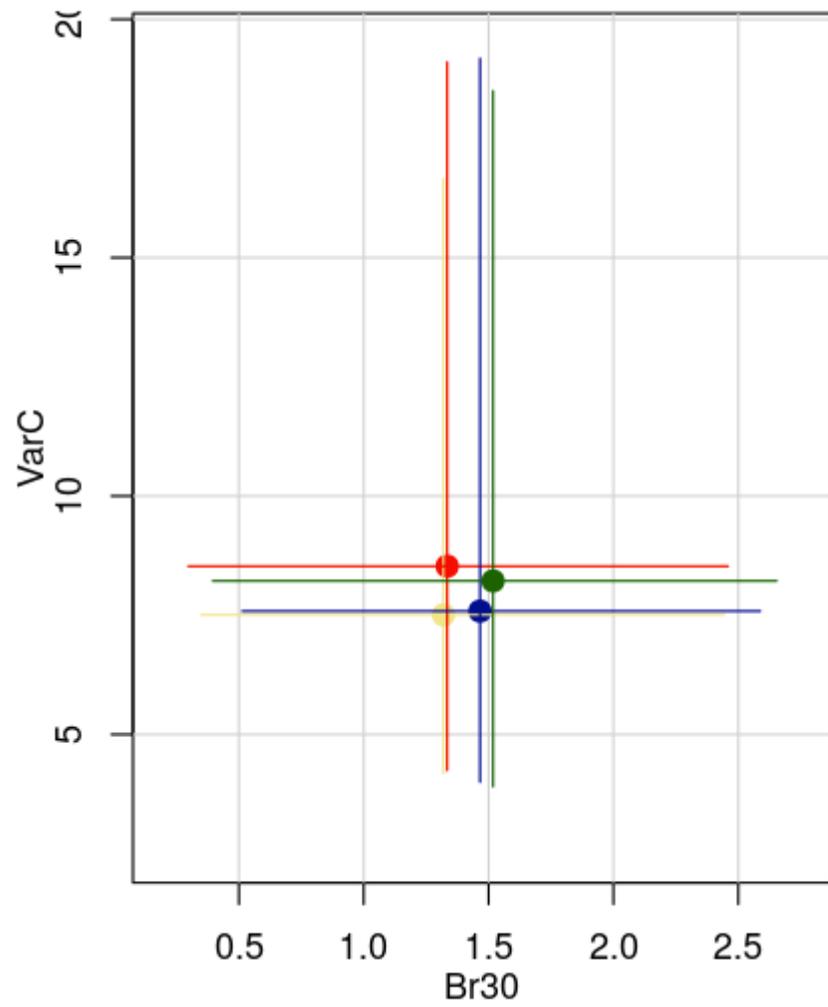
## East



PGK60, 2-yr  
PGK60, 3-yr, -35%  
PGK70, 2-yr  
PGK70, 3-yr

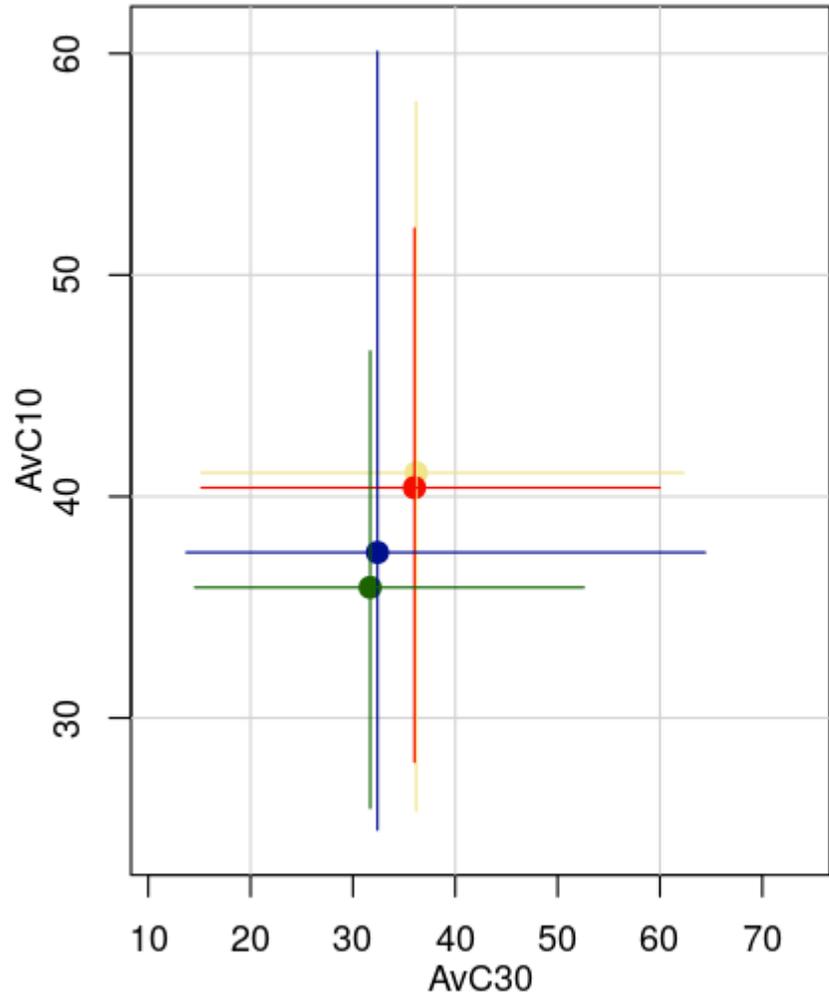
TC5a  
TC5c  
TK6a  
TC6b

## West



# Compromis entre AvC30 et AvC10 pour TC CMP

## East



- PGK60, 2-yr
- PGK60, 3-yr, -35%
- PGK70, 2-yr
- PGK70, 3-yr
  
- TC5a
- TC5c
- TK6a
- TC6b

## West

