



Rural R&D for Profit program Final Report

Improved use of seasonal forecasting to increase farmer
profitability



AgriFutures™
Improved Seasonal
Forecasting

APPENDIX 2

Outline of the S2S (sub-seasonal to seasonal) prediction project.

The S2S report is a WWRP/THORPEX-WCRP joint research project established to improve forecast skill, understand the sub-seasonal to seasonal time scale, promote its uptake by operational centres, exploitation by the applications community and provides input into the assessments made in the Rural R&D for Profit Program Final Report, “Improved Seasonal Forecasting to Increase Farmer Profitability.” Further information can be found at <https://www.ecmwf.int/en/research/projects/s2s>.

MODEL	COUNTRY	TIME RANGE	RESOLUTION	ENSEMBLE		RE		RFC	
				SIZE	FREQUENCY	FORECAST	RFC LENGTH	FREQUENCY	RFC SIZE
BOM	Australia	62 days	T47L17	33	2/week	fixed	1981-2013	6/month	33
CMA	China	60 days	T106L40	4	daily	fixed	1994-2014	daily	4
ECCC	Canada	32 days	0.45L40	21	weekly	on the fly	1995-2014	weekly	4
ECMWF	EU	46 days	T639/319L91	51	2/week	on the fly	1998-2018	2/week	11
HMCR	Russia	61 days	1.1x1.4L28	20	weekly	on the fly	1985-2010	weekly	10
ISAC-CNR	Italy	31 days	0.75x0.56L54	41	weekly	fixed	1981-2010	every 5 days	1
JMA	Japan	33 days	T319L60	25	2/week	fixed	1981-2010	3/month	5
KMA	Korea	60 days	N216L85	4	daily	on the fly	1991-2010	4/month	3
METEO	France	32 days	T255L91	51	weekly	fixed	1993-2014	2/month	5
NCEP	USA	44 days	T216L64	16	daily	fixed	1999-2010	daily	4
UKMO	UK	60 days	N216L85	4	daily	on the fly	1993-2015	4/month	3