

Supplemental Tables and Figures

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Supplemental Table 1. PRISMA checklist.

Section and Topic	Item #	Checklist item	Location where item is reported
TITLE			
Title	1	Identify the report as a systematic review.	Title
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	Yes, within word limits.
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Introduction
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	1.1.
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	2.1.
Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted.	2.2.
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	2.2., supplement table, fig.1
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	2.1.
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	2.3.
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	2.3.
	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	2.3.
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	2.4.
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	2.5.
Synthesis	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study	2.5.

Section and Topic	Item #	Checklist item	Location where item is reported
methods		intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	2.5.
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	2.5.
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	2.5.
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	2.5.
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	2.5.
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	2.5.
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	2.5.
RESULTS			
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram.	3.1.
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	3.1.
Study characteristics	17	Cite each included study and present its characteristics.	3.1.
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	3.2.
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	3.2., 3.3
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	3.2., 3.3
	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	3.2., 3.3, 3.5
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	3.2., 3.3,
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	3.2., 3.3., 3.4

Section and Topic	Item #	Checklist item	Location where item is reported
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	3.2., 3.3
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	Discussion
DISCUSSION			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Discussion, 4.1.
	23b	Discuss any limitations of the evidence included in the review.	4.2.
	23c	Discuss any limitations of the review processes used.	4.2
	23d	Discuss implications of the results for practice, policy, and future research.	4.2, Conclusions
OTHER INFORMATION			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	Abstract, 2.
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	Described in the methods
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	Not needed
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Reported in funding statement.
Competing interests	26	Declare any competing interests of review authors.	No competing interests
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	Supplement files and manuscript tables

Supplemental Table 2. Reviewed study references.

Citation (sorted A to Z)
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Supplement Table 3. Correlates entered for each study.

Study	Climate	r	N	Correlate description
Abrahamsen & Kristiansen 2015	Mastery climate 1	0.64	27	Anxiety somatic
Abrahamsen et al. 2008a	Mastery climate 1	0.13	101	Anxiety somatic
Abrahamsen et al. 2008a	Mastery climate 2	-0.14	101	Anxiety cognitive
Abrahamsen et al. 2008a	Mastery climate 3	-0.04	101	Anxiety somatic
Abrahamsen et al. 2008a	Mastery climate 4	-0.14	101	Anxiety cognitive
Abrahamsen et al. 2008a	Mastery climate 5	-0.16	101	Anxiety concentration disruption
Abrahamsen et al. 2008a	Mastery climate 6	-0.03	101	Anxiety concentration disruption
Abrahamsen et al. 2008a	Performance climate 1	0.15	89	Anxiety somatic
Abrahamsen et al. 2008a	Performance climate 2	0.31	89	Anxiety cognitive
Abrahamsen et al. 2008a	Performance climate 3	0.03	89	Anxiety somatic
Abrahamsen et al. 2008a	Performance climate 4	0.39	89	Anxiety cognitive
Abrahamsen et al. 2008a	Performance climate 5	0.25	89	Anxiety concentration disruption
Abrahamsen et al. 2008a	Performance climate 6	0.13	89	Anxiety concentration disruption
Abrahamsen et al. 2008b	Mastery climate 1	-0.18	143	Anxiety somatic
Abrahamsen et al. 2008b	Mastery climate 2	-0.01	143	Anxiety worry
Abrahamsen et al. 2008b	Mastery climate 3	-0.05	143	Anxiety concentration disruption
Abrahamsen et al. 2008b	Performance climate 1	0.03	143	Anxiety somatic
Abrahamsen et al. 2008b	Performance climate 2	0.16	143	Anxiety worry
Abrahamsen et al. 2008b	Performance climate 3	0.12	143	Anxiety concentration disruption
Abraldes et al. 2016	Mastery Climate 1	0.44	163	Satisfaction fun
Abraldes et al. 2016	Mastery Climate 2	-0.06	163	Satisfaction boredom
Alferman et al. 2013 s1	Mastery Climate 1	0.08	56	Satisfaction
Alferman et al. 2013 s1	Performance Climate 1	-0.03	56	Satisfaction
Alferman et al. 2013 s2	Mastery Climate 1	0.35	117	Satisfaction
Alferman et al. 2013 s2	Performance Climate 1	0.17	117	Satisfaction
Al-Yaaribi & Kavussanu 2018	Mastery climate 1	0.4	358	Fun
Al-Yaaribi & Kavussanu 2018	Mastery climate 2	-0.23	358	Anger
Al-Yaaribi & Kavussanu 2018	Performance climate 1	-0.14	358	Fun

Al-Yaaribi & Kavussanu 2018	Performance climate 2	0.17	358	Anger
Amaro et al. 2023	Task-involving climate 1	0.6	109	Enjoyment
Atkins et al. 2013	Task Climate 2	0.13	227	Enjoyment
Atkins et al. 2013	Task Climate 3	0.23	227	Happy
Atkins et al. 2013	Task Climate 4	0.15	227	Fun
Atkins et al. 2013	Task Climate 6	0.21	227	Enjoyment
Atkins et al. 2013	Task Climate 7	0.22	227	Happy
Atkins et al. 2013	Task Climate 8	0.22	227	Fun
Atkins et al. 2015 s1	Task Climate 10	0.33	205	Enjoyment
Atkins et al. 2015 s1	Task Climate 11	0.28	205	Happy
Atkins et al. 2015 s1	Task Climate 12	0.28	205	Fun
Atkins et al. 2015 s1	Task Climate 16	0.29	205	Enjoyment
Atkins et al. 2015 s1	Task Climate 17	0.27	205	Happy
Atkins et al. 2015 s1	Task Climate 18	0.26	205	Fun
Atkins et al. 2015 s1	Task Climate 22	0.09	205	Enjoyment
Atkins et al. 2015 s1	Task Climate 23	0.16	205	Happy
Atkins et al. 2015 s1	Task Climate 24	0.11	205	Fun
Atkins et al. 2015 s1	Task Climate 28	0.09	205	Enjoyment
Atkins et al. 2015 s1	Task Climate 29	0.14	205	Happy
Atkins et al. 2015 s1	Task Climate 30	0.13	205	Fun
Atkins et al. 2015 s1	Task Climate 34	0.28	205	Enjoyment
Atkins et al. 2015 s1	Task Climate 35	0.3	205	Happy
Atkins et al. 2015 s1	Task Climate 36	0.3	205	Fun
Atkins et al. 2015 s1	Task Climate 4	0.3	205	Enjoyment
Atkins et al. 2015 s1	Task Climate 5	0.3	205	Happy
Atkins et al. 2015 s1	Task Climate 6	0.3	205	Fun
Atkins et al. 2015 s2	Task Climate 10	0.45	205	Enjoyment
Atkins et al. 2015 s2	Task Climate 11	0.44	205	Happy
Atkins et al. 2015 s2	Task Climate 12	0.4	205	Fun
Atkins et al. 2015 s2	Task Climate 16	0.38	200	Enjoyment
Atkins et al. 2015 s2	Task Climate 17	0.34	200	Happy

Atkins et al. 2015 s2	Task Climate 18	0.33	200	Fun
Atkins et al. 2015 s2	Task Climate 22	0.26	200	Enjoyment
Atkins et al. 2015 s2	Task Climate 23	0.24	200	Happy
Atkins et al. 2015 s2	Task Climate 24	0.24	200	Fun
Atkins et al. 2015 s2	Task Climate 28	0.33	200	Enjoyment
Atkins et al. 2015 s2	Task Climate 29	0.31	200	Happy
Atkins et al. 2015 s2	Task Climate 30	0.3	200	Fun
Atkins et al. 2015 s2	Task Climate 34	0.31	200	Enjoyment
Atkins et al. 2015 s2	Task Climate 35	0.34	200	Happy
Atkins et al. 2015 s2	Task Climate 36	0.33	200	Fun
Atkins et al. 2015 s2	Task Climate 4	0.28	205	Enjoyment
Atkins et al. 2015 s2	Task Climate 5	0.31	205	Happy
Atkins et al. 2015 s2	Task Climate 6	0.31	205	Fun
Balaguer et al. 1999	Ego Climate 1	-0.16	219	Satisfaction with results
Balaguer et al. 1999	Ego Climate 2	0.13	219	Satisfaction with level of play
Balaguer et al. 1999	Ego Climate 3	-0.41	219	Satisfaction with coach
Balaguer et al. 1999	Task Climate 1	0.23	219	Satisfaction with results
Balaguer et al. 1999	Task Climate 2	0.23	219	Satisfaction with level of play
Balaguer et al. 1999	Task Climate 3	0.41	219	Satisfaction with coach
Balaguer et al. 2002	Ego Climate 1	0.11	181	Satisfaction with level of play
Balaguer et al. 2002	Task Climate 1	0.21	181	Satisfaction with level of play
Baric 2011	Mastery climate 1	0.157	388	Pressure/tension
Baric 2011	Performance climate 1	-0.129	388	Pressure/tension
Bekiari & Syrmpas 2015	Mastery climate 1	0.835	324	Satisfaction
Bekiari & Syrmpas 2015	Performance climate 1	-0.884	324	Satisfaction
Blecharzet et al. 2014 s1	Task-involving 1	0.62	56	Satisfaction
Blecharzet et al. 2014 s2	Ego-involving 1	-0.08	113	Satisfaction
Blecharzet et al. 2014 s2	Ego-involving 2	-0.09	113	Satisfaction
Blecharzet et al. 2014 s2	Task-involving 1	0.25	113	Satisfaction
Blecharzet et al. 2014 s2	Task-involving 2	0.07	113	Satisfaction
Boixadós et al. 2004	Ego Climate 1	-0.09	472	Satisfaction

Boixadós et al. 2004	Ego Climate 2	0.05	472	Enjoyment
Boixadós et al. 2004	Task Climate 1	0.56	472	Satisfaction
Boixadós et al. 2004	Task Climate 2	0.13	472	Enjoyment
Bono & Livi 2016	Ego Climate 1	-0.123	96	Satisfaction with performance
Bono & Livi 2016	Ego Climate 2	0.174	96	Pressure/tension
Bono & Livi 2016	Task Climate 1	0.283	96	Satisfaction with performance
Bono & Livi 2016	Task Climate 2	-0.209	96	Pressure/tension
Bortoli et al. 2009	Mastery climate 1	0.235	473	Pleasant states
Bortoli et al. 2009	Mastery climate 2	-0.159	473	Unpleasant states
Bortoli et al. 2009	Performance climate 1	-0.095	473	Pleasant states
Bortoli et al. 2009	Performance climate 2	0.218	473	Unpleasant states
Bortoli et al. 2011	Ego Climate 1	-0.083	320	Pleasant psychosocial states
Bortoli et al. 2011	Mastery climate 1	0.205	320	Pleasant psychosocial states
Bortoli et al. 2012	Mastery climate 1	0.24	320	Pleasant states
Bortoli et al. 2012	Mastery climate 2	-0.24	320	Unpleasant states
Bortoli et al. 2012	Performance climate 1	-0.02	320	Pleasant states
Bortoli et al. 2012	Performance climate 2	0.2	382	Unpleasant states
Calvo & Topa 2019	Ego-oriented climate 1	-0.05	151	Satisfaction
Calvo & Topa 2019	Task-oriented climate 1	0.3	151	Satisfaction
Carr & Wyon 2003	Mastery climate 1	0.01	181	Anxiety somatic
Carr & Wyon 2003	Mastery climate 2	-0.12	181	Anxiety worry
Carr & Wyon 2003	Mastery climate 3	-0.25	181	Anxiety concentration disruption
Carr & Wyon 2003	Performance climate 1	0.1	181	Anxiety somatic
Carr & Wyon 2003	Performance climate 2	0.32	181	Anxiety worry
Carr & Wyon 2003	Performance climate 3	0.27	181	Anxiety concentration disruption
Cecchini et al. 2005	Performance climate 1	-0.371	82	Fun fair play
Cecchini et al. 2005	Performance climate 2	0.445	82	Anxiety error
Cecchini et al. 2005	Task Climate 1	0.467	82	Fun fair play
Cecchini et al. 2005	Task Climate 2	-0.118	82	Anxiety error
Cumming et al. 2007	Ego Climate 1	-0.23	268	Fun this season
Cumming et al. 2007	Task Climate 1	0.4	268	Fun this season

Curran et al. 2015	Mastery Climate 2	0.54	260	Well-being vigor
Curran et al. 2015	Mastery Climate 4	0.58	260	Well-being enthusiasm
Curran et al. 2015	Performance Climate 2	-0.09	260	Well-being vigor
Curran et al. 2015	Performance Climate 4	-0.16	260	Well-being enthusiasm
Dorsch et al. 2016	Mastery Climate 3	0.19	226	Positive affect
Dorsch et al. 2016	Mastery Climate 4	-0.16	226	Negative affect
Dorsch et al. 2016	Mastery Climate 7	0.28	226	Positive affect
Dorsch et al. 2016	Mastery Climate 8	0.09	226	Negative affect
Dorsch et al. 2016	Performance Climate 3	-0.19	226	Positive affect
Dorsch et al. 2016	Performance Climate 4	0.04	226	Negative affect
Dorsch et al. 2016	Performance Climate 7	0.01	226	Positive affect
Dorsch et al. 2016	Performance Climate 8	0.01	226	Negative affect
Draugelis et al. 2014	Ego Climate 1	0.04	182	Anxiety somatic
Draugelis et al. 2014	Ego Climate 2	0.17	182	Anxiety worry
Draugelis et al. 2014	Ego Climate 3	0.17	182	Anxiety concentration disruption
Draugelis et al. 2014	Ego Climate 5	-0.13	182	Well-being vigor
Draugelis et al. 2014	Ego Climate 7	-0.1	182	Well-being enthusiasm
Draugelis et al. 2014	Task Climate 1	-0.12	182	Anxiety somatic
Draugelis et al. 2014	Task Climate 2	-0.04	182	Anxiety worry
Draugelis et al. 2014	Task Climate 3	-0.07	182	Anxiety concentration disruption
Draugelis et al. 2014	Task Climate 5	0.34	182	Well-being vigor
Draugelis et al. 2014	Task Climate 7	0.25	182	Well-being enthusiasm
Eys et al. 2013	Ego-involving climate 1	-0.11	997	Enjoyment - self-referenced
Eys et al. 2013	Ego-involving climate 2	0.21	997	Enjoyment - other-referenced
Eys et al. 2013	Task-involving climate 1	0.35	997	Enjoyment - self-referenced
Eys et al. 2013	Task-involving climate 2	0.09	997	Enjoyment - other-referenced
García-Calvo et al. 2014	Ego Climate 1	-0.2	303	Satisfaction with participation
García-Calvo et al. 2014	Ego Climate 2	-0.06	303	Satisfaction with participation
García-Calvo et al. 2014	Ego Climate 3	-0.17	303	Satisfaction with participation
García-Calvo et al. 2014	Ego Climate 4	-0.06	303	Satisfaction with participation
García-Calvo et al. 2014	Task Climate 1	0.19	303	Satisfaction with participation

García-Calvo et al. 2014	Task Climate 2	0.05	303	Satisfaction with participation
García-Calvo et al. 2014	Task Climate 3	0.22	303	Satisfaction with participation
García-Calvo et al. 2014	Task Climate 4	0	303	Satisfaction with participation
Garcia-Mas et al. 2011	Ego Climate 1	0.178	54	Anxiety somatic
Garcia-Mas et al. 2011	Ego Climate 2	0.055	54	Anxiety concentration disruption
Garcia-Mas et al. 2011	Ego Climate 3	0.252	54	Anxiety worry
Garcia-Mas et al. 2011	Task Climate 1	-0.13	54	Anxiety worry
Garcia-Mas et al. 2011	Task Climate 2	-0.22	54	Anxiety somatic
Garcia-Mas et al. 2011	Task Climate 3	0.108	54	Anxiety concentration disruption
Gillham et al. 2013	Ego Climate 1	-0.13	396	Enjoyment
Gillham et al. 2013	Ego Climate 2	0.2	396	Boredom
Gillham et al. 2013	Mastery climate 1	0.36	396	Enjoyment
Gillham et al. 2013	Mastery climate 2	-0.16	396	Boredom
Gjesdal et al. 2018	Mastery Climate 1	0.58	1359	Enjoyment
Gjesdal et al. 2018	Mastery Climate 2	-0.21	1359	Anxiety
Gjesdal et al. 2018	Performance Climate 1	-0.43	1359	Enjoyment
Gjesdal et al. 2018	Performance Climate 2	0.38	1359	Anxiety
Gómez-López et al. 2020	Ego-involving 1	0.14	479	Anxiety somatic
Gómez-López et al. 2020	Ego-involving 2	-0.19	479	Anxiety cognitive
Gómez-López et al. 2020	Task-involving 1	-0.07	479	Anxiety somatic
Gómez-López et al. 2020	Task-involving 2	-0.01	479	Anxiety cognitive
Guzmán & García 2014	Mastery Climate 2	0.342	303	Satisfaction/interest
Guzmán & García 2014	Mastery Climate 3	0.149	303	Psychological well-being
Guzmán & García 2014	Performance Climate 2	-0.109	303	Satisfaction/interest
Guzmán & García 2014	Performance Climate 3	-0.202	303	Psychological well-being
Habeeb et al. 2023	Mastery Climate 1	0.23	150	Vigor
Habeeb et al. 2023	Mastery Climate 2	0.17	150	Enthusiasm
Habeeb et al. 2023	Mastery Climate 3	0.27	150	Vigor
Habeeb et al. 2023	Mastery Climate 4	0.34	150	Enthusiasm
Habeeb et al. 2023	Mastery Climate 5	0.36	150	Vigor
Habeeb et al. 2023	Mastery Climate 6	0.34	150	Enthusiasm

Habeeb et al. 2023	Performance Climate 1	-0.13	150	Vigor
Habeeb et al. 2023	Performance Climate 2	-0.11	150	Enthusiasm
Habeeb et al. 2023	Performance Climate 3	0.19	150	Vigor
Habeeb et al. 2023	Performance Climate 4	0.13	150	Enthusiasm
Habeeb et al. 2023	Performance Climate 5	0.12	150	Vigor
Habeeb et al. 2023	Performance Climate 6	-0.01	150	Enthusiasm
Harwood et al. 2019	Ego 1	0.12	92	Vigor
Harwood et al. 2019	Ego 2	-0.006	92	Vigor
Harwood et al. 2019	Ego 3	-0.06	92	Enthusiasm
Harwood et al. 2019	Ego 4	-0.16	92	Enthusiasm
Harwood et al. 2019	Task 1	0.26	92	Vigor
Harwood et al. 2019	Task 2	0.26	92	Vigor
Harwood et al. 2019	Task 3	0.22	92	Vigor
Harwood et al. 2019	Task 4	0.19	92	Enthusiasm
Harwood et al. 2019	Task 5	0.3	92	Enthusiasm
Harwood et al. 2019	Task 6	0.28	92	Enthusiasm
Haugen et al. 2020	Mastery climate 1	0.271	532	Satisfaction personal treatment
Haugen et al. 2020	Performance climate 1	-0.299	532	Satisfaction personal treatment
Holgado et al. 2010	Ego-involving 1	0.203	511	Satisfaction normative success
Holgado et al. 2010	Task-involving 1	0.185	511	Satisfaction normative success
Jaakkola et al. 2015	Ego-involving climate 1	0.17	265	Enjoyment
Jaakkola et al. 2015	Task-involving climate 1	0.54	265	Enjoyment
Kipp & Weiss 2013	Mastery Climate 6	0.23	309	Positive affect
Kipp & Weiss 2013	Performance Climate 6	-0.21	309	Positive affect
Lemyre et al. 2008	Mastery Climate 2	0.17	141	Satisfaction performance
Lemyre et al. 2008	Performance Climate 2	-0.07	141	Satisfaction performance
MacDonald et al. 2011	Ego 1	0.01	510	Self
MacDonald et al. 2011	Ego 2	0.32	510	Other
MacDonald et al. 2011	Ego 3	0.04	510	Effort
MacDonald et al. 2011	Ego 4	0.01	510	Competitive excitement
MacDonald et al. 2011	Ego 5	-0.03	510	Affiliation with peers

MacDonald et al. 2011	Ego 6	-0.1	510	Positive parent involvement
MacDonald et al. 2011	Task 1	0.31	510	Self
MacDonald et al. 2011	Task 2	0.09	510	Other
MacDonald et al. 2011	Task 3	0.29	510	Effort
MacDonald et al. 2011	Task 4	0.33	510	Competitive excitement
MacDonald et al. 2011	Task 5	0.33	510	Affiliation with peers
MacDonald et al. 2011	Task 6	0.34	510	Positive parent involvement
Monteiro et al. 2018	Ego-involving 2	-0.15	799	Enjoyment
Monteiro et al. 2018	Task-involving 2	0.159	799	Enjoyment
Mora et al. 2014 s1	Ego Climate 1	0.15	20	Anxiety worry
Mora et al. 2014 s1	Ego Climate 2	0.577	20	Anxiety somatic
Mora et al. 2014 s1	Ego Climate 3	0.347	20	Lack of concentration
Mora et al. 2014 s1	Ego Climate 4	0.07	20	Anxiety worry
Mora et al. 2014 s1	Ego Climate 5	0.055	20	Anxiety somatic
Mora et al. 2014 s1	Ego Climate 6	-0.018	20	Lack of concentration
Mora et al. 2014 s1	Task Climate 1	-0.034	20	Anxiety worry
Mora et al. 2014 s1	Task Climate 2	-0.31	20	Anxiety somatic
Mora et al. 2014 s1	Task Climate 3	-0.154	20	Lack of concentration
Mora et al. 2014 s1	Task Climate 4	0.107	20	Anxiety worry
Mora et al. 2014 s1	Task Climate 5	-0.249	20	Anxiety somatic
Mora et al. 2014 s1	Task Climate 6	-0.169	20	Lack of concentration
Mora et al. 2014 s2	Ego Climate 1	0.395	20	Anxiety worry
Mora et al. 2014 s2	Ego Climate 2	0.503	20	Anxiety somatic
Mora et al. 2014 s2	Ego Climate 3	0.254	20	Lack of concentration
Mora et al. 2014 s2	Ego Climate 4	0.259	20	Anxiety worry
Mora et al. 2014 s2	Ego Climate 5	0.055	20	Anxiety somatic
Mora et al. 2014 s2	Ego Climate 6	-0.255	20	Lack of concentration
Mora et al. 2014 s2	Task Climate 1	-0.262	20	Anxiety worry
Mora et al. 2014 s2	Task Climate 2	-0.331	20	Anxiety somatic
Mora et al. 2014 s2	Task Climate 3	-0.412	20	Lack of concentration
Mora et al. 2014 s2	Task Climate 4	-0.337	20	Anxiety worry

Mora et al. 2014 s2	Task Climate 5	-0.392	20	Anxiety somatic
Mora et al. 2014 s2	Task Climate 6	-0.335	20	Lack of concentration
Morales-Belando et al. 2021	Ego Climate 1	-0.21	94	Enjoyment
Morales-Belando et al. 2021	Task Climate 1	0.08	94	Enjoyment
Newton et al. 2000	Ego Climate 1	-0.31	385	Enjoyment/interest
Newton et al. 2000	Ego Climate 2	0.4	385	Pressure/tension
Newton et al. 2000	Ego Climate 3	-0.2	385	Satisfaction team
Newton et al. 2000	Task Climate 1	0.52	385	Enjoyment/interest
Newton et al. 2000	Task Climate 2	-0.24	385	Pressure/tension
Newton et al. 2000	Task Climate 3	0.41	385	Satisfaction team
Nordin-Bates et al. 2012	Ego Climate 1	0.13	327	Anxiety total score
Nordin-Bates et al. 2012	Ego Climate 2	0.31	327	Anxiety total score
Nordin-Bates et al. 2012	Task Climate 1	0.01	327	Anxiety total score
Nordin-Bates et al. 2012	Task Climate 2	-0.12	327	Anxiety total score
Ntoumanis & Biddle 1998	Ego Climate 1	-0.03	146	Anxiety cognitive intensity
Ntoumanis & Biddle 1998	Ego Climate 2	-0.05	146	Anxiety somatic intensity
Ntoumanis & Biddle 1998	Mastery Climate 1	-0.09	146	Anxiety cognitive intensity
Ntoumanis & Biddle 1998	Mastery Climate 2	-0.02	146	Anxiety somatic intensity
Núñez et al. 2011	Cooperative learning 4	0.3	399	Positive emotions
Núñez et al. 2011	Effort improvement 4	0.28	399	Positive emotions
Núñez et al. 2011	Important role 4	0.23	399	Positive emotions
O'Rourke et al. 2011	Mastery climate 1	-0.24	307	Anxiety
O'Rourke et al. 2011	Mastery climate 2	-0.18	307	Anxiety
O'Rourke et al. 2011	Mastery climate 3	-0.24	307	Anxiety
O'Rourke et al. 2011	Performance climate 1	0.34	307	Anxiety
O'Rourke et al. 2011	Performance climate 2	0.3	307	Anxiety
O'Rourke et al. 2011	Performance climate 3	0.24	307	Anxiety
O'Rourke et al. 2014	Ego climate 1	0.24	228	Anxiety
O'Rourke et al. 2014	Ego climate 2	0.19	228	Anxiety
O'Rourke et al. 2014	Mastery climate 1	-0.24	228	Anxiety
O'Rourke et al. 2014	Mastery climate 2	-0.16	228	Anxiety

Papaioannou et al. 2008	Mastery climate 1	0.33	863	Satisfaction
Papaioannou et al. 2008	Mastery climate 2	0.31	863	Satisfaction
Papaioannou et al. 2008	Mastery climate 3	0.29	863	Satisfaction
Pensgaard & Roberts 2000	Ego Climate 1	0.0289	69	Distress total score
Pensgaard & Roberts 2000	Mastery climate 1	0	69	Distress total score
Pineda-Espejel et al. 2015	Ego climate 1	0.14	211	Anxiety cognitive
Pineda-Espejel et al. 2015	Ego climate 2	0.13	211	Anxiety somatic
Pineda-Espejel et al. 2015	Task climate 1	-0.07	211	Anxiety cognitive
Pineda-Espejel et al. 2015	Task climate 2	-0.08	211	Anxiety somatic
Pineda-Espejel et al. 2021	Task climate 1	-0.08	217	Anxiety cognitive
Pineda-Espejel et al. 2021	Task climate 2	-0.04	217	Anxiety somatic
Quested & Duda 2009	Ego climate 5	-0.33	59	Positive affect
Quested & Duda 2009	Ego climate 6	0.37	59	Negative affect
Quested & Duda 2009	Task climate 5	0.48	59	Positive affect
Quested & Duda 2009	Task climate 6	-0.47	59	Negative affect
Quested & Duda 2010	Ego-involving 4	-0.25	392	Positive affect
Quested & Duda 2010	Ego-involving 5	0.33	392	Negative affect
Quested & Duda 2010	Task-involving 4	0.41	392	Positive affect
Quested & Duda 2010	Task-involving 5	-0.29	392	Negative affect
Robazza et al. 2021	Ego Climate 1	-0.383	302	Pleasant emotions
Robazza et al. 2021	Ego Climate 2	0.176	302	Anxiety
Robazza et al. 2021	Mastery Climate 1	0.409	302	Pleasant emotions
Robazza et al. 2021	Mastery Climate 2	-0.228	302	Anxiety
Robazza et al. 2022	Ego Climate 1	0.06	459	Anxiety
Robazza et al. 2022	Ego Climate 2	0.29	459	Dejection
Robazza et al. 2022	Ego Climate 3	0.33	459	Anger
Robazza et al. 2022	Ego Climate 4	-0.02	459	Excitement
Robazza et al. 2022	Ego Climate 5	-0.08	459	Happiness
Robazza et al. 2022	Ego Climate 6	-0.27	459	Emotions
Robazza et al. 2022	Ego Climate 7	-0.06	459	Anxiety
Robazza et al. 2022	Mastery Climate 1	-0.01	459	Anxiety

Robazza et al. 2022	Mastery Climate 2	-0.15	459	Dejection
Robazza et al. 2022	Mastery Climate 3	-0.13	459	Anger
Robazza et al. 2022	Mastery Climate 4	0.22	459	Excitement
Robazza et al. 2022	Mastery Climate 5	0.25	459	Happiness
Robazza et al. 2022	Mastery Climate 6	0.33	459	Emotions
Robazza et al. 2022	Mastery Climate 7	0.15	459	Anxiety
Ruiz et al. 2017	Ego-involving climate 1	-0.09	494	Pleasant states intensity
Ruiz et al. 2017	Ego-involving climate 10	-0.09	494	Pleasant states impact
Ruiz et al. 2017	Ego-involving climate 11	0	494	Anxiety impact
Ruiz et al. 2017	Ego-involving climate 12	0.08	494	Anger impact
Ruiz et al. 2017	Ego-involving climate 2	0.13	494	Anxiety intensity
Ruiz et al. 2017	Ego-involving climate 3	0.11	494	Anger intensity
Ruiz et al. 2017	Ego-involving climate 4	0.01	494	Pleasant states intensity
Ruiz et al. 2017	Ego-involving climate 5	0.2	494	Anxiety intensity
Ruiz et al. 2017	Ego-involving climate 6	0.25	494	Anger intensity
Ruiz et al. 2017	Ego-involving climate 7	-0.07	494	Pleasant states impact
Ruiz et al. 2017	Ego-involving climate 8	-0.09	494	Anxiety impact
Ruiz et al. 2017	Ego-involving climate 9	0	494	Anger impact
Ruiz et al. 2017	Task-involving climate 1	0.06	494	Pleasant states intensity
Ruiz et al. 2017	Task-involving climate 10	0.08	494	Pleasant states impact
Ruiz et al. 2017	Task-involving climate 11	0	494	Anxiety impact
Ruiz et al. 2017	Task-involving climate 12	-0.13	494	Anger impact
Ruiz et al. 2017	Task-involving climate 2	-0.15	494	Anxiety intensity
Ruiz et al. 2017	Task-involving climate 3	0.07	494	Anger intensity
Ruiz et al. 2017	Task-involving climate 4	0.03	494	Pleasant states intensity
Ruiz et al. 2017	Task-involving climate 5	-0.19	494	Anxiety intensity
Ruiz et al. 2017	Task-involving climate 6	-0.24	494	Anger intensity
Ruiz et al. 2017	Task-involving climate 7	0.11	494	Pleasant states impact
Ruiz et al. 2017	Task-involving climate 8	0.07	494	Anxiety impact
Ruiz et al. 2017	Task-involving climate 9	0.18	494	Anger impact
Ruiz et al. 2019	Ego climate 1	-0.08	217	Pleasant states intensity

Ruiz et al. 2019	Ego climate 10	0.2	217	Anxiety intensity dysfunctional
Ruiz et al. 2019	Ego climate 11	0.17	217	Anger intensity functional
Ruiz et al. 2019	Ego climate 12	0.32	217	Anger intensity dysfunctional
Ruiz et al. 2019	Ego climate 13	-0.16	217	Pleasant states impact
Ruiz et al. 2019	Ego climate 14	0.12	217	Anxiety intensity dysfunctional
Ruiz et al. 2019	Ego climate 15	-0.05	217	Anger impact functional
Ruiz et al. 2019	Ego climate 16	0.14	217	Anger impact dysfunctional
Ruiz et al. 2019	Ego climate 2	0.19	217	Anxiety intensity dysfunctional
Ruiz et al. 2019	Ego climate 3	0.12	217	Anger intensity functional
Ruiz et al. 2019	Ego climate 4	0.21	217	Anger intensity dysfunctional
Ruiz et al. 2019	Ego climate 5	-0.08	217	Pleasant states impact
Ruiz et al. 2019	Ego climate 6	-0.08	217	Anxiety intensity dysfunctional
Ruiz et al. 2019	Ego climate 7	-0.07	217	Anger impact functional
Ruiz et al. 2019	Ego climate 8	0.14	217	Anger impact dysfunctional
Ruiz et al. 2019	Ego climate 9	-0.08	217	Pleasant states intensity
Ruiz et al. 2019	Task climate 1	0.08	217	Pleasant states intensity
Ruiz et al. 2019	Task climate 10	-0.19	217	Anxiety intensity dysfunctional
Ruiz et al. 2019	Task climate 11	-0.1	217	Anger intensity functional
Ruiz et al. 2019	Task climate 12	-0.19	217	Anger intensity dysfunctional
Ruiz et al. 2019	Task climate 13	0.15	217	Pleasant states impact
Ruiz et al. 2019	Task climate 14	-0.09	217	Anxiety intensity dysfunctional
Ruiz et al. 2019	Task climate 15	0.12	217	Anger impact functional
Ruiz et al. 2019	Task climate 16	-0.18	217	Anger impact dysfunctional
Ruiz et al. 2019	Task climate 2	-0.21	217	Anxiety intensity dysfunctional
Ruiz et al. 2019	Task climate 3	0.07	217	Anger intensity functional
Ruiz et al. 2019	Task climate 4	-0.22	217	Anger intensity dysfunctional
Ruiz et al. 2019	Task climate 5	0.11	217	Pleasant states impact
Ruiz et al. 2019	Task climate 6	-0.06	217	Anxiety intensity dysfunctional
Ruiz et al. 2019	Task climate 7	0.28	217	Anger impact functional
Ruiz et al. 2019	Task climate 8	-0.14	217	Anger impact dysfunctional
Ruiz et al. 2019	Task climate 9	0.1	217	Pleasant states intensity

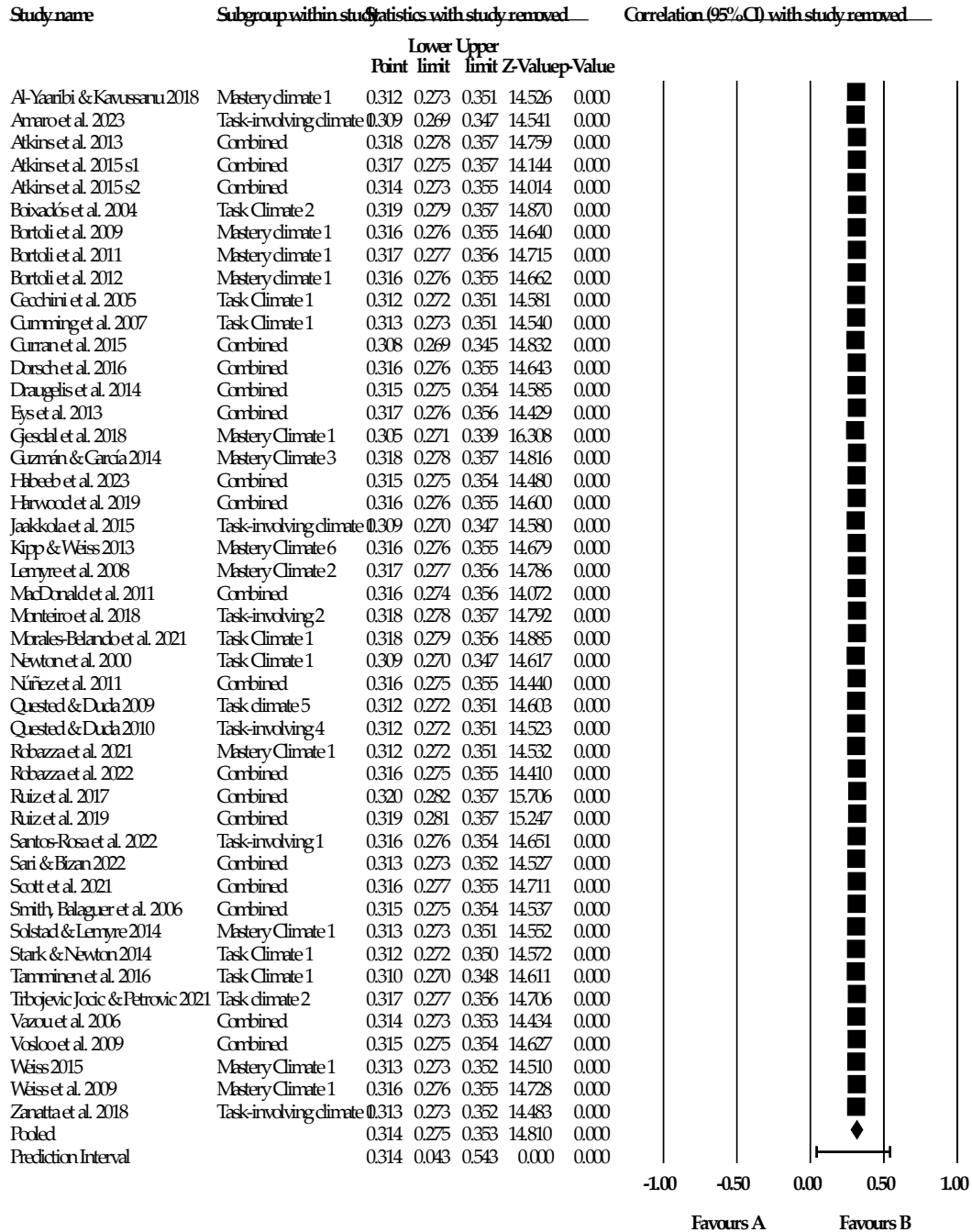
Santos-Rosa et al. 2022	Ego-involving 1	-0.06	258	Positivity
Santos-Rosa et al. 2022	Ego-involving 2	0.24	258	Anxiety somatic
Santos-Rosa et al. 2022	Ego-involving 3	0.17	258	Anxiety worry
Santos-Rosa et al. 2022	Task-involving 1	0.26	258	Positivity
Santos-Rosa et al. 2022	Task-involving 2	-0.04	258	Anxiety somatic
Santos-Rosa et al. 2022	Task-involving 3	-0.08	258	Anxiety worry
Sari & Bizan 2022	Ego-involving Climate 2	-0.1	180	Enthusiasm
Sari & Bizan 2022	Ego-involving Climate 1	-0.07	180	Vigor
Sari & Bizan 2022	Task-involving Climate 1	0.36	180	Vigor
Sari & Bizan 2022	Task-involving Climate 2	0.42	180	Enthusiasm
Scott et al. 2021	Ego-involving 1	-0.12	109	Hope
Scott et al. 2021	Ego-involving 2	-0.14	109	Happiness
Scott et al. 2021	Task-involving 1	0.26	109	Hope
Scott et al. 2021	Task-involving 2	0.18	109	Happiness
Sheehan et al. 2018a	Ego Climate w1 1	0.407	38	Total Mood Score
Sheehan et al. 2018a	Ego Climate w1 2	0.4	38	Depression symptoms
Sheehan et al. 2018a	Ego Climate w1 4	0.452	38	Anxiety Trait
Sheehan et al. 2018a	Ego Climate w2 1	0.404	38	Total Mood Score
Sheehan et al. 2018a	Ego Climate w2 2	0.218	38	Depression symptoms
Sheehan et al. 2018a	Ego Climate w2 4	0.52	38	Anxiety Trait
Sheehan et al. 2018a	Task Climate w1 1	-0.018	38	Total Mood Score
Sheehan et al. 2018a	Task Climate w1 2	-0.261	38	Depression symptoms
Sheehan et al. 2018a	Task Climate w1 4	-0.48	38	Anxiety Trait
Sheehan et al. 2018a	Task Climate w2 1	-0.242	38	Total Mood Score
Sheehan et al. 2018a	Task Climate w2 2	-0.153	38	Depression symptoms
Sheehan et al. 2018a	Task Climate w2 4	-0.488	38	Anxiety Trait
Sheehan et al. 2018b	Ego Climate 4	0.086	215	Total Mood Score
Sheehan et al. 2018b	Ego Climate 5	0.174	215	Depression symptoms
Sheehan et al. 2018b	Ego Climate 7	0.183	215	Anxiety Trait
Sheehan et al. 2018b	Task Climate 4	-0.131	215	Total Mood Score
Sheehan et al. 2018b	Task Climate 5	-0.103	215	Depression symptoms

Sheehan et al. 2018b	Task Climate 7	-0.242	215	Anxiety Trait
Smith, Balaguer et al. 2006	Ego-involving 1	-0.08	223	Enjoyment soccer
Smith, Balaguer et al. 2006	Ego-involving 2	0	223	Satisfaction performance
Smith, Balaguer et al. 2006	Ego-involving 3	-0.13	223	Satisfaction team
Smith, Balaguer et al. 2006	Task-involving 1	0.36	223	Enjoyment soccer
Smith, Balaguer et al. 2006	Task-involving 2	0.23	223	Satisfaction performance
Smith, Balaguer et al. 2006	Task-involving 3	0.24	223	Satisfaction team
Smith, Smoll et al. 2006	Ego climate 1	0.3	572	Anxiety somatic
Smith, Smoll et al. 2006	Ego climate 2	0.28	572	Anxiety worry
Smith, Smoll et al. 2006	Ego climate 3	0.35	572	Anxiety concentration disruption
Smith, Smoll et al. 2006	Mastery climate 1	-0.28	572	Anxiety somatic
Smith, Smoll et al. 2006	Mastery climate 2	-0.29	572	Anxiety worry
Smith, Smoll et al. 2006	Mastery climate 3	-0.32	572	Anxiety concentration disruption
Solstad & Lemyre 2014	Mastery Climate 1	0.405	202	Well-being subjective
Solstad & Lemyre 2014	Performance Climate 1	-0.18	202	Well-being subjective
Stark & Newton 2014	Ego Climate 1	-0.119	83	Positive affect
Stark & Newton 2014	Ego Climate 2	0.456	83	Negative affect
Stark & Newton 2014	Task Climate 1	0.487	83	Positive affect
Stark & Newton 2014	Task Climate 2	-0.249	83	Negative affect
Steffen et al. 2009	Mastery climate 1	0.07	1430	Anxiety somatic
Steffen et al. 2009	Mastery climate 2	0.02	1430	Anxiety worry
Steffen et al. 2009	Mastery climate 3	-0.05	1430	Anxiety concentration disruption
Steffen et al. 2009	Performance Climate 1	0.21	1430	Anxiety somatic
Steffen et al. 2009	Performance Climate 2	0.29	1430	Anxiety worry
Steffen et al. 2009	Performance Climate 3	0.29	1430	Anxiety concentration disruption
Tamminen et al. 2016	Ego Climate 1	-0.04	451	Enjoyment
Tamminen et al. 2016	Task Climate 1	0.5	451	Enjoyment
Trbojevic Jovic & Petrovic 2021	Task climate 2	0.205	383	Enjoyment
Trbojevic Jovic et al. 2020	Punishment for Mistakes 1	-0.14	117	Satisfaction
Trbojevic Jovic et al. 2020	Task climate 1	0.61	117	Satisfaction
Trbojevic Jovic et al. 2020	Unequal Recognition 1	-0.38	117	Satisfaction

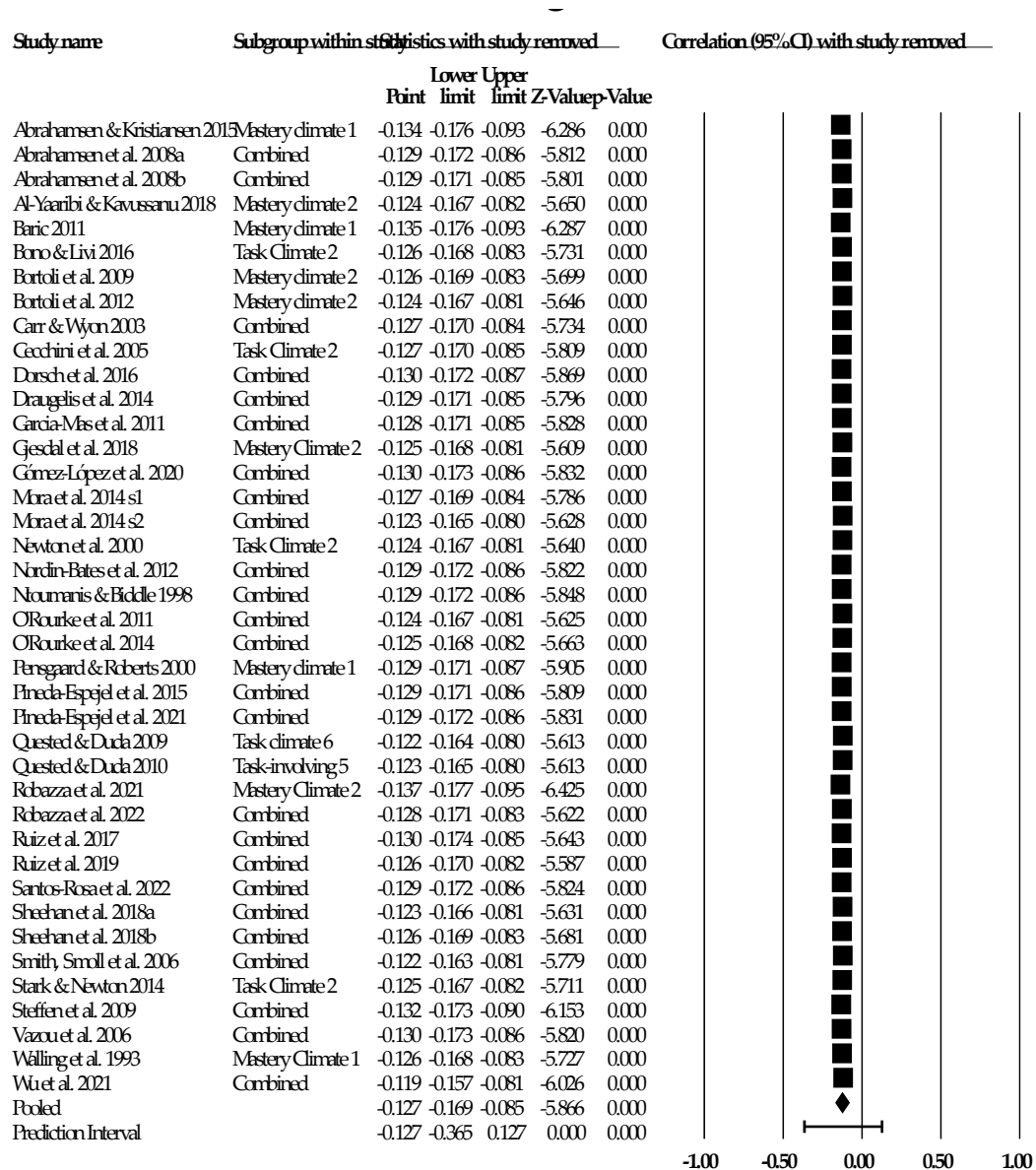
Trenz & Zusho 2011	Mastery climate 1	0.6	119	Satisfaction swim
Trenz & Zusho 2011	Performance climate 1	-0.38	119	Satisfaction swim
Vazou et al. 2006	Mastery climate 2	0.39	493	Enjoyment
Vazou et al. 2006	Mastery climate 3	-0.03	493	Anxiety trait
Vazou et al. 2006	Mastery climate 5	0.31	493	Enjoyment
Vazou et al. 2006	Mastery climate 6	-0.06	493	Anxiety trait
Vazou et al. 2006	Performance climate 2	-0.16	493	Enjoyment
Vazou et al. 2006	Performance climate 3	0.15	493	Anxiety trait
Vazou et al. 2006	Performance climate 5	-0.14	493	Enjoyment
Vazou et al. 2006	Performance climate 6	0.21	493	Anxiety trait
Vosloo et al. 2009	Mastery climate 1	0.269	151	Anxiety cognitive facilitative
Vosloo et al. 2009	Mastery climate 2	0.275	151	Anxiety somatic facilitative
Walling et al. 1993	Mastery Climate 1	-0.18	169	Worry performance
Walling et al. 1993	Mastery Climate 2	0.39	169	Satisfaction team
Walling et al. 1993	Performance Climate 1	0.39	169	Worry performance
Walling et al. 1993	Performance Climate 2	-0.26	169	Satisfaction team
Weiss 2015	Mastery Climate 1	0.38	491	Enjoyment
Weiss 2015	Performance Climate 1	-0.19	491	Enjoyment
Weiss et al. 2009	Mastery Climate 1	0.22	141	Enjoyment
Weiss et al. 2009	Performance Climate 1	-0.2	141	Enjoyment
Wu et al. 2021	Ego climate 1	0.35	685	Depression
Wu et al. 2021	Ego climate 2	0.25	685	Anxiety
Wu et al. 2021	Task climate 1	-0.43	685	Depression
Wu et al. 2021	Task climate 2	-0.32	685	Anxiety
Zanatta et al. 2018	Ego-involving climate 1	-0.03	824	Enjoyment
Zanatta et al. 2018	Task-involving climate 1	0.39	824	Enjoyment

Supplement Figures. Remove-one study figures.

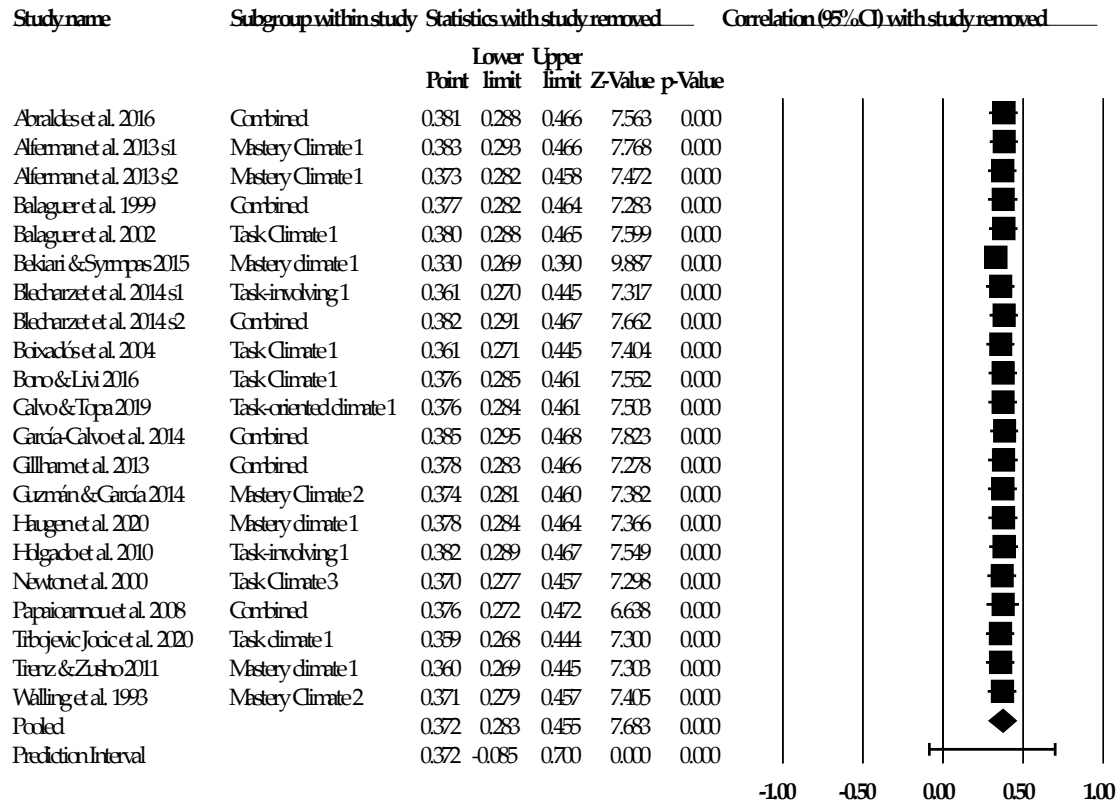
Meta Analysis



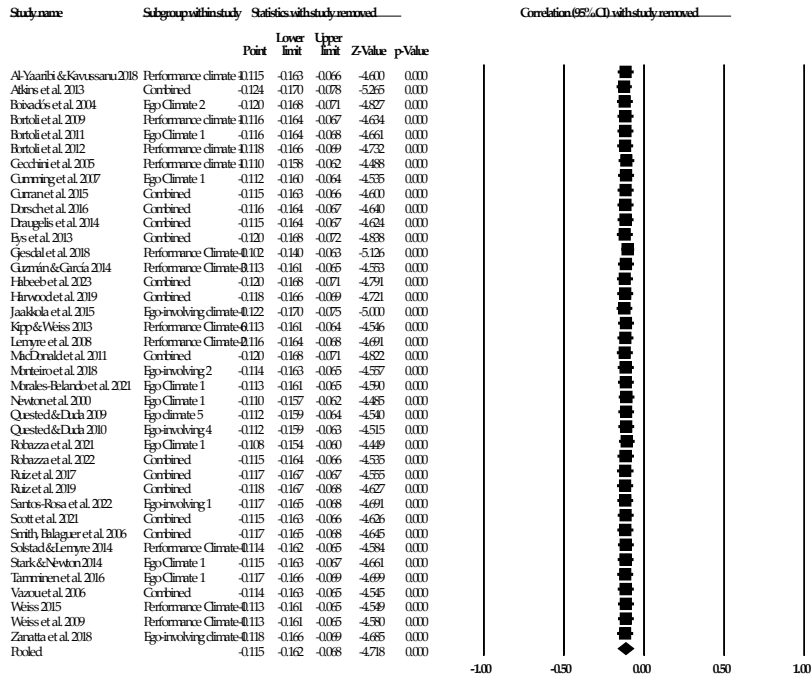
Supp Figure 1. Remove-one study results for task/mastery climate and positive affect/mood.



Supp Figure 2. Remove-one study results for task/mastery climate and negative affect/mood.

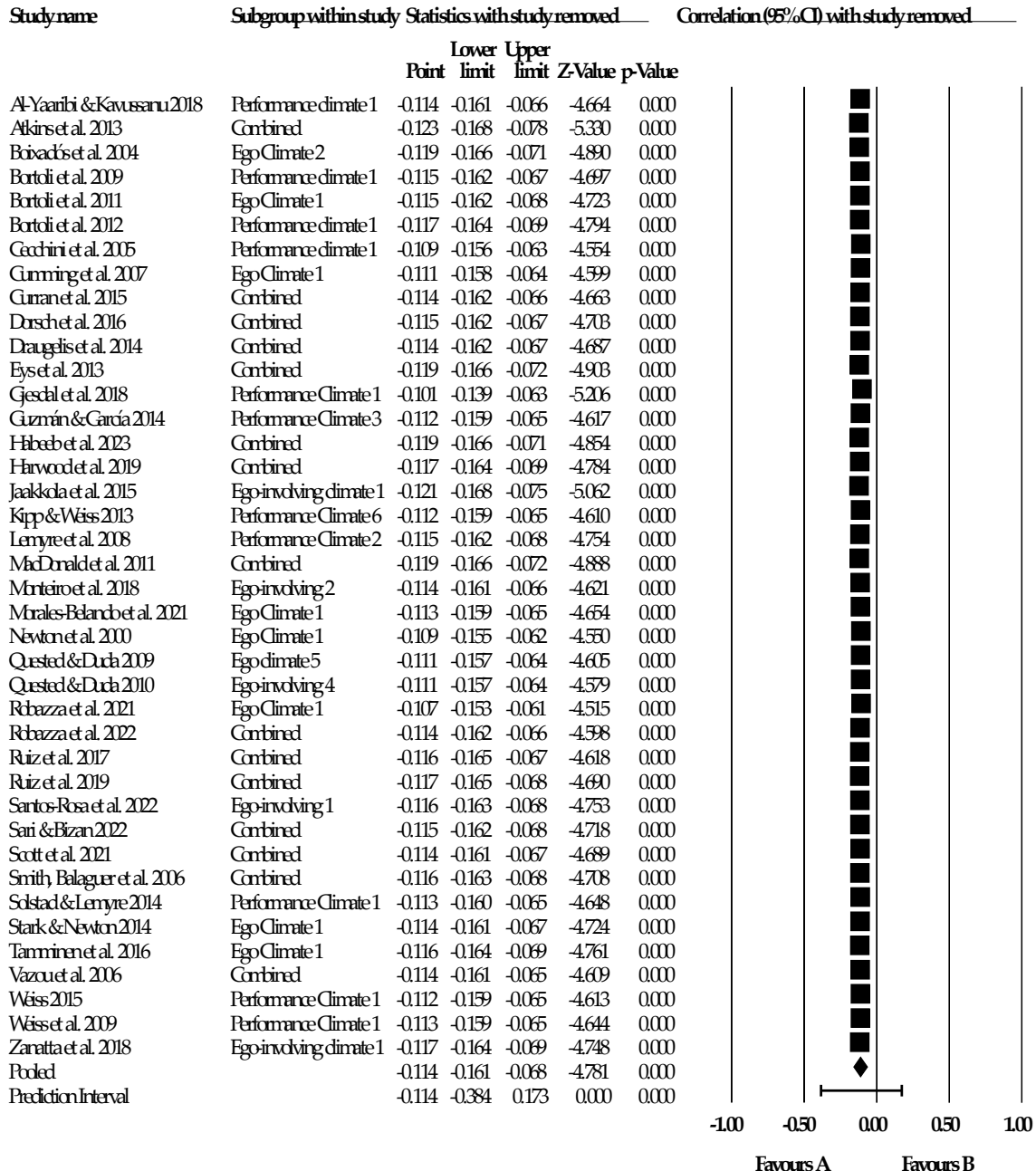


Supp Figure 3. Remove-one study results for task/mastery climate and satisfaction.

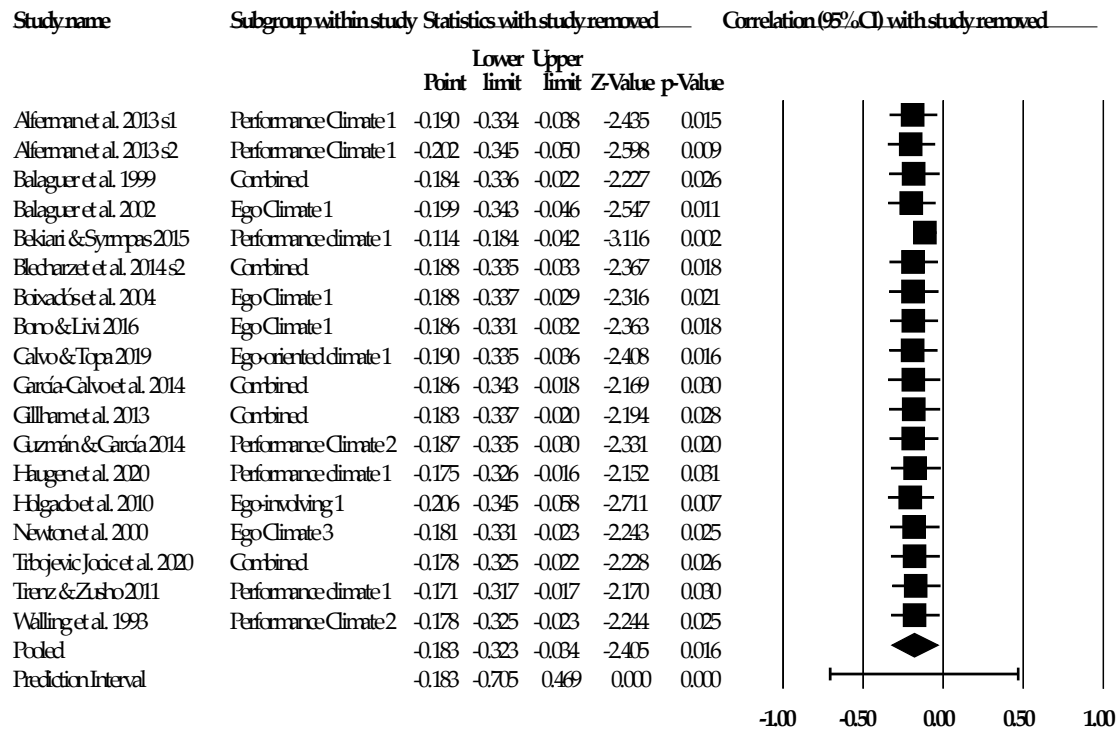


Supp Figure 4. Remove-one study results for ego/performance climate and positive affect/mood.

Meta Analysis



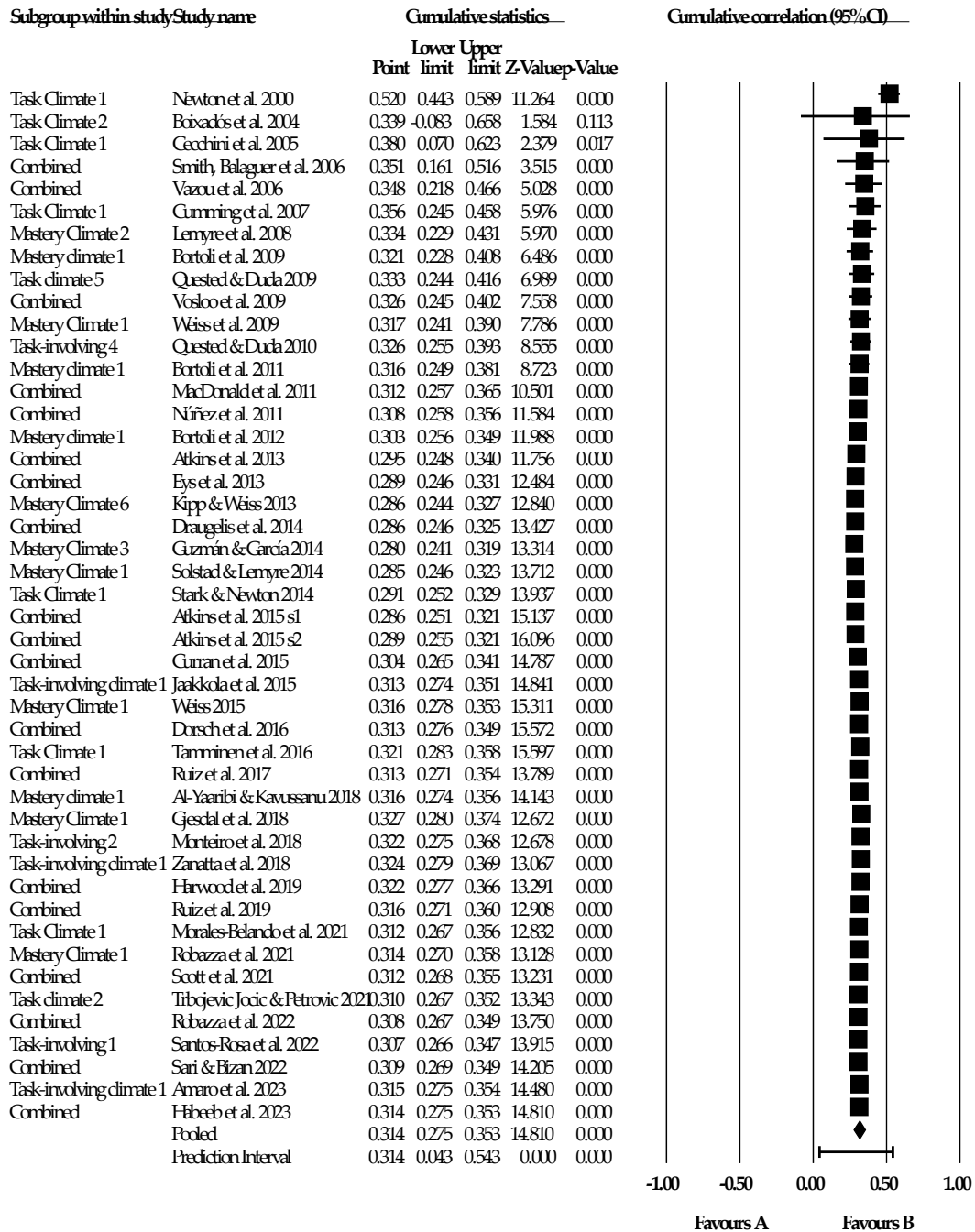
Supp Figure 5. Remove-one study results for ego/performance climate and negative affect/mood.



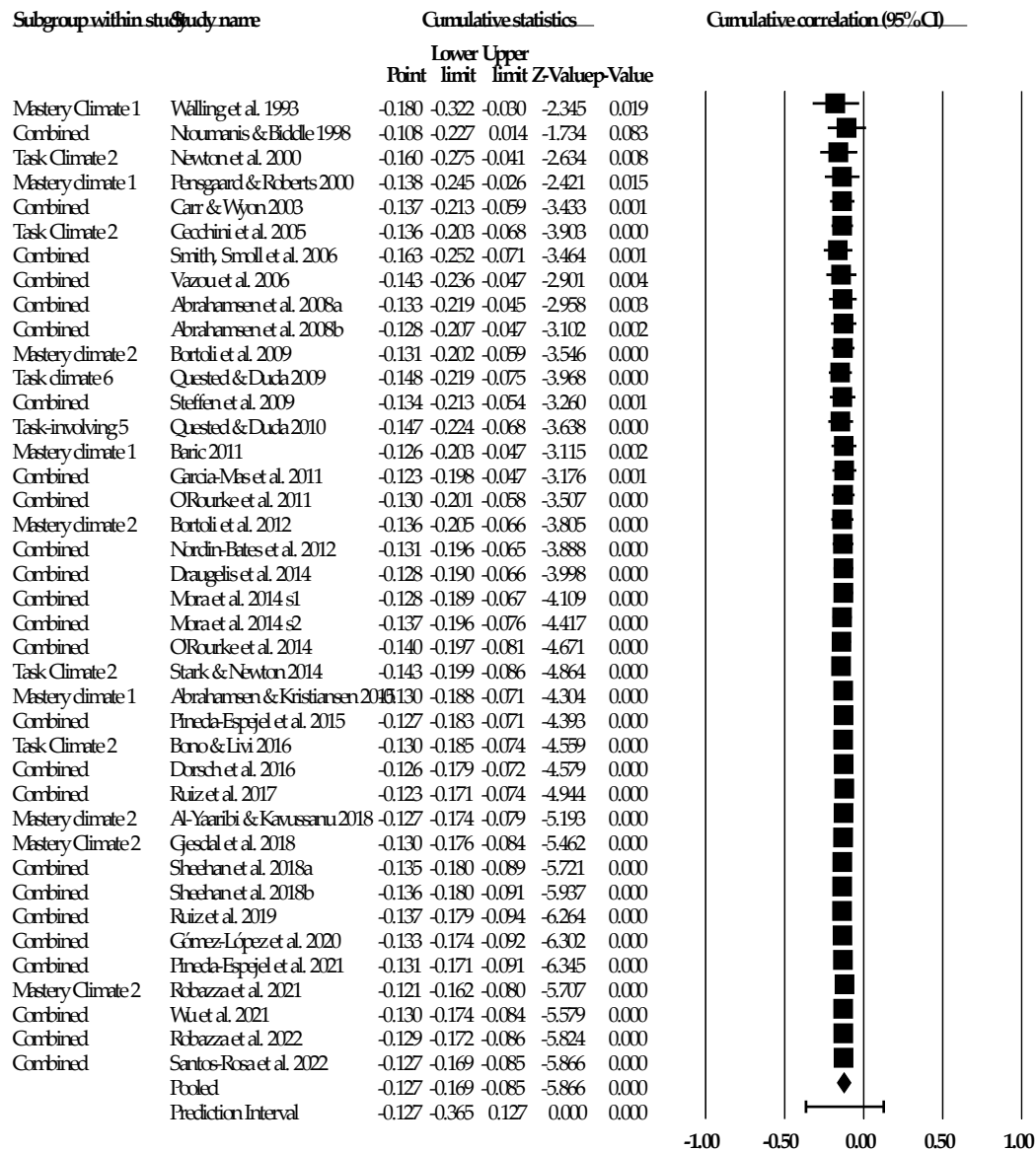
Supp Figure 6. Remove-one study results for ego/performance climate and satisfaction.

Supplement Figures. Cumulative analysis by year figures.

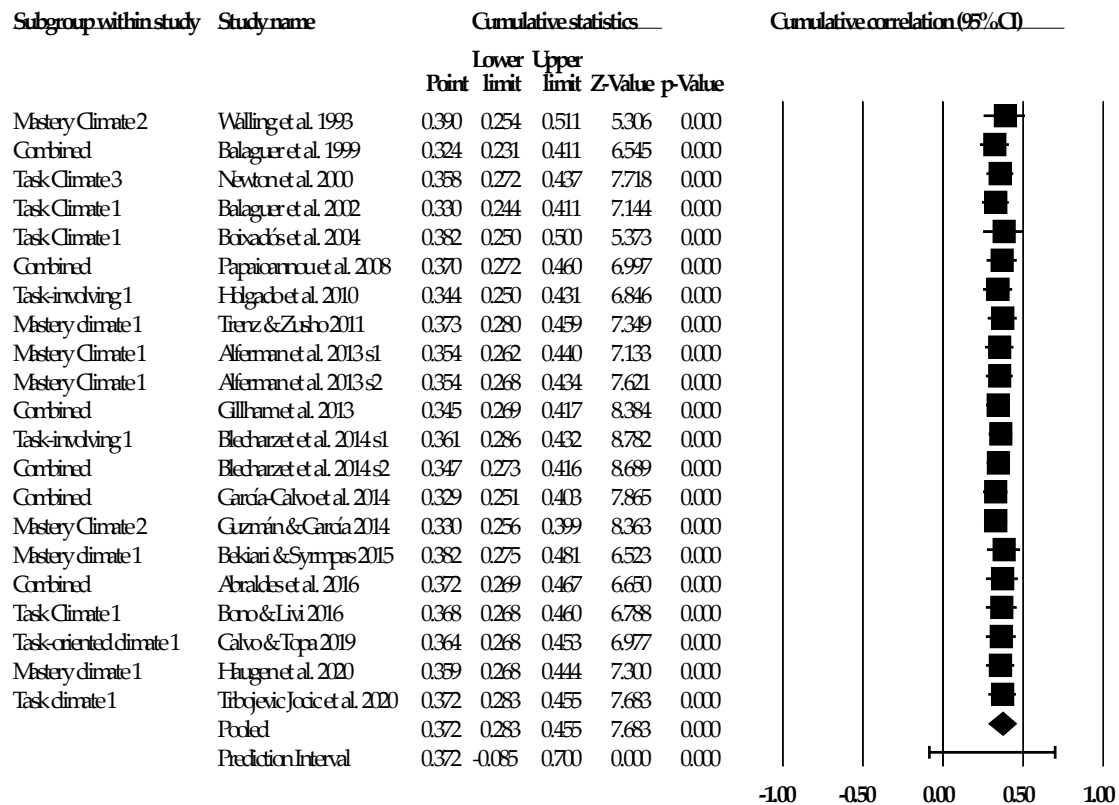
Meta Analysis



Supp Figure 8. Cumulative analysis by year for task/mastery climate and positive affect/mood.

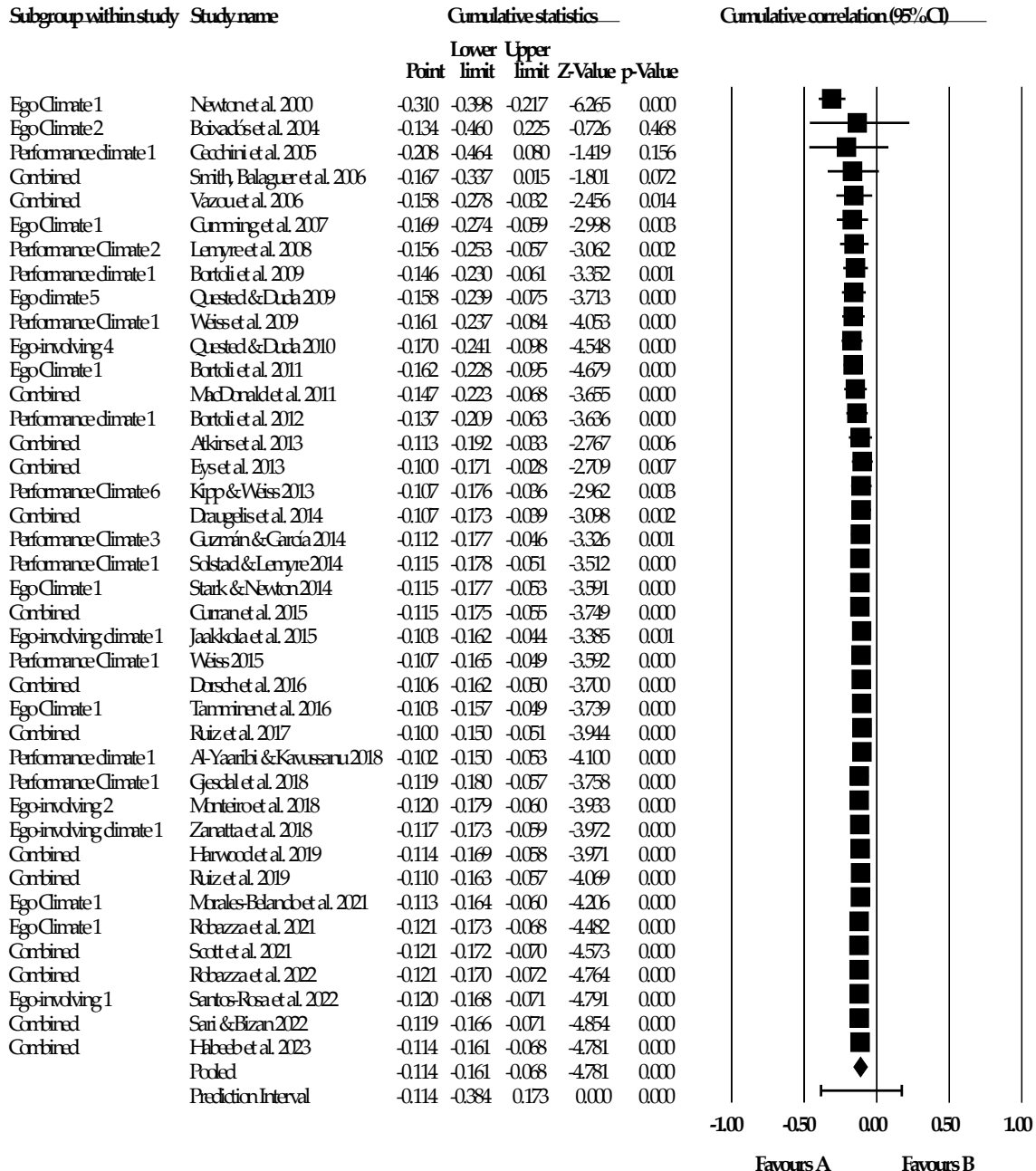


Supp Figure 9. Cumulative analysis by year for task/mastery climate and negative affect/mood.

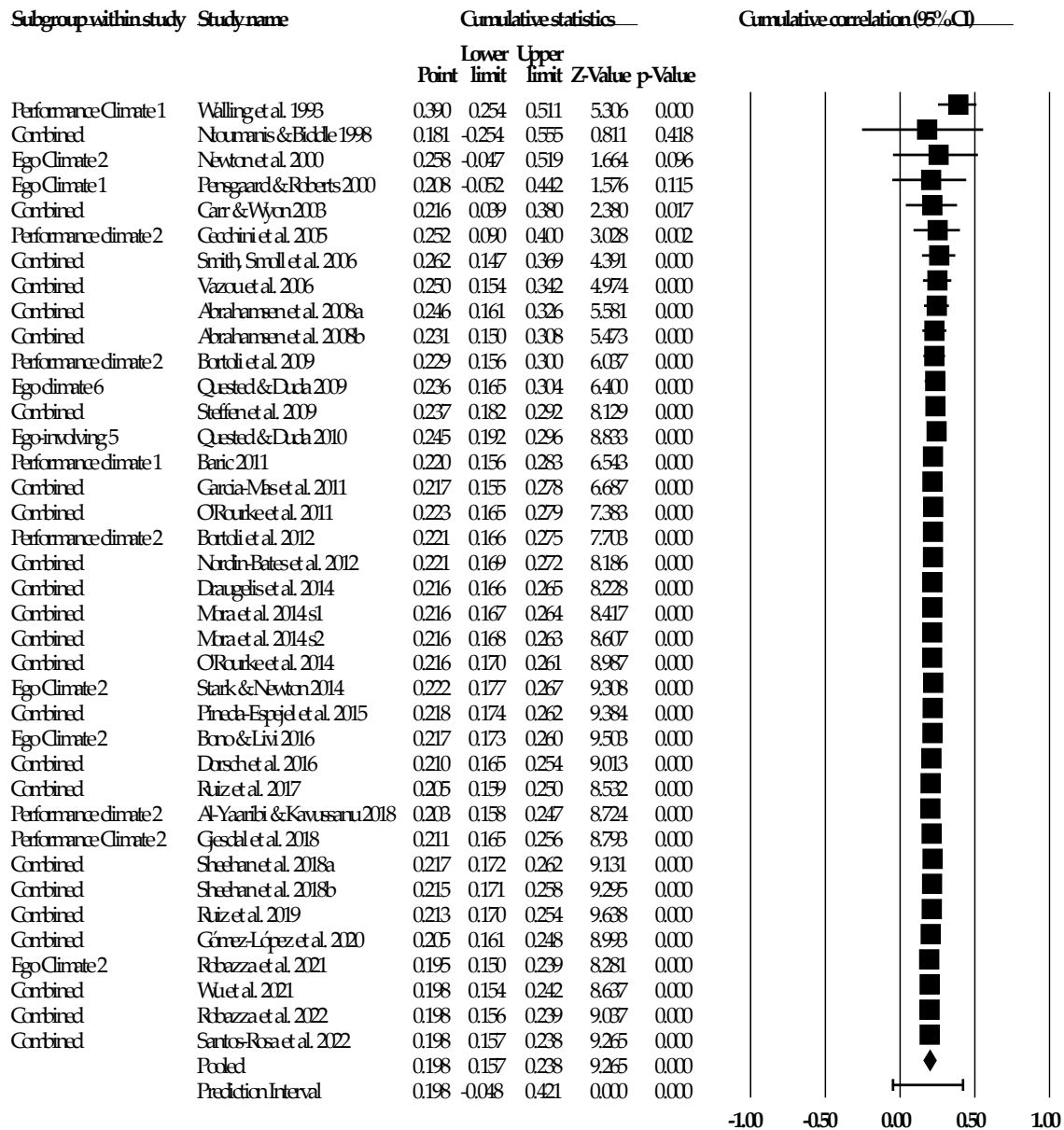


Supp Figure 10. Cumulative analysis by year for task/mastery climate and satisfaction.

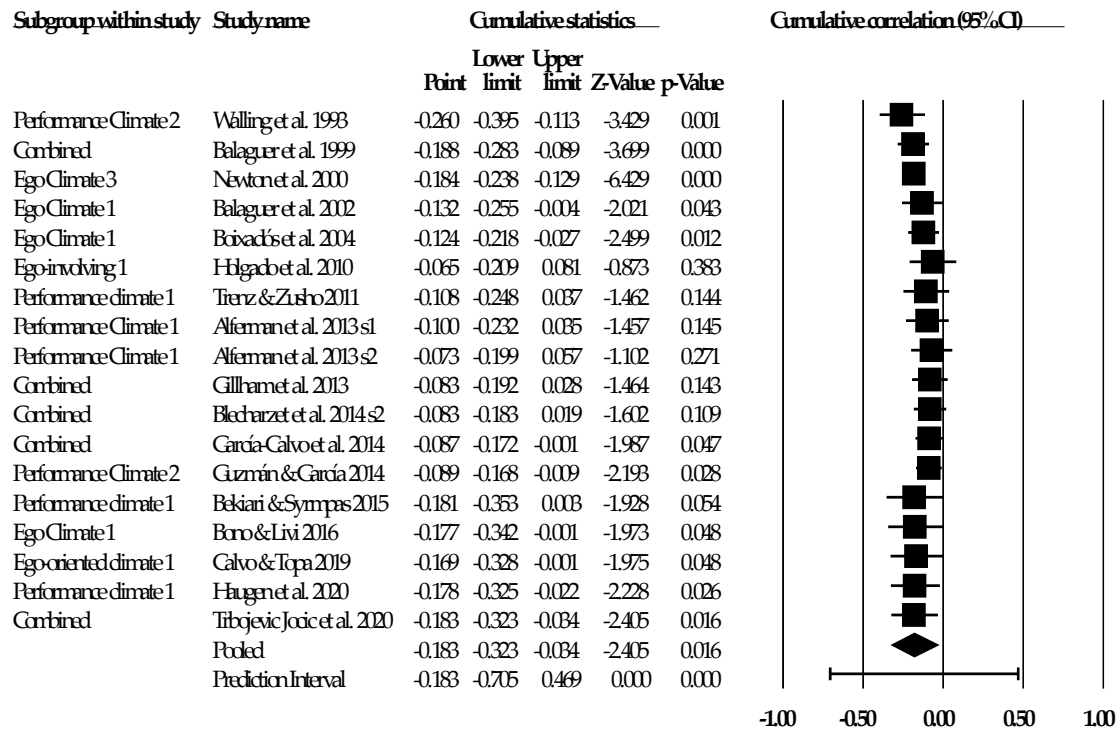
Meta Analysis



Supp Figure 11. Cumulative analysis by year for ego/performance climate and positive affect/mood.



Supp Figure 12. Cumulative analysis by year for ego/performance climate and negative affect/mood.



Supp Figure 13. Cumulative analysis by year for ego/performance climate and satisfaction.