
Research profile: Professor Jon French

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Employment

Professor, UCL, Department of Geography (2009 -)
Reader, UCL, Department of Geography (2002 - 2009)
Lecturer, UCL, Department of Geography (1989 - 2002)

Qualifications

1990 PhD University of Cambridge (*Hydrodynamics and sedimentation in tidal marshes*)
1986-89 NERC PhD Studentship
1985-86 University of Cambridge Research Scholarship
1989 MA University of Cambridge
1985 BA (Hons) Geography, Peterhouse, University of Cambridge
William Vaughan Lewis Prize for Part II Dissertation (1985)
Peterhouse Exhibition in Geography (1984/1985)

Other appointments, selected consultancies and professional affiliations

- Head of UCL Department of Geography (2011 -)
- Vice-Dean (Research), Faculty of Social & Historical Sciences, UCL (2008 -)
- Deputy Head (Research), UCL Department of Geography (2007 - 2010)
- Director, Coastal & Estuarine Research Unit, UCL (1996 -)
- Member, UCL Chorley Institute Steering Committee (2008 -)
- Associate Scientist, Jackson Environment Institute, UCL (1996 - 1999)
- NERC Peer Review College (2006 - 2010)
- EA Suffolk Estuaries Review Group Member (2003 - 2006)
- Steering Committee, Thames Estuary Research Forum (2003 - 2006)
- UK Estuaries Advisory Group member (2002 -)
- Member, DEFRA/EA Large-Scale Modelling Technical Advisors Group (2000 - 2005)
- Affiliate, HARRP (Hydraulic Assessment for River Rehabilitation Programme) (2001 -)
- Lead consultant, English Nature: Shoreline management and coastal geomorphology (2003 - 2008)
- Consultant, Halcrow plc: Shoreline Management Plans for England & Wales (2001 - 2002)
- Fellow of the Royal Geographical Society (1986 -); Young Member's Committee (1995 - 1998); and Ralph Brown Expedition Award, Expert Review Panel (2004 - 2006)
- British Geomorphological Research Group: Executive Committee member and Chair Publications Committee (2002 - 2005)
- Visiting Lecturer, University of Cambridge (1989, 1993, 2001)
- Visiting Lecturer, University of Oxford (2000, 2001)
- Editorial Board, *Earth Surface Processes & Landforms* (2007 -)
- Member American Geophysical Union (AGU); Coastal, Education and Research Foundation (CERF; USA); EPSRC COZONE network; British Society for Geomorphology (BSG)

Prizes and awards

- Coastal and Estuarine Research Federation: Pritchard Award in Physical Oceanography (2009)
- British Society for Geomorphology: Gordon Warwick Award for 'excellence in geomorphological research' (1995)
- British Society for Geomorphology: Wiley Award for 'best research paper in *Earth Surface Processes & Landforms* (1994)

Current research and consultancy interests

- Process geomorphology of coastal, estuarine and fluvial systems
- Numerical modelling of hydrodynamics and sedimentation in estuaries and shallow lakes
- Physical processes in tidal wetlands
- Morphodynamic modelling
- Behavioural systems modelling, including systems mapping
- Climate change at the coast
- Adaptive responses to sea-level rise and climate change
- Environmental data acquisition and analysis
- History and philosophy of geomorphological research

Publications

Books

1. Burningham H & **French JR** (2009) *Seabed mobility in the greater Thames estuary*. London, Crown Estate. ISBN 978-1-906410-09-4.
2. Burningham H & **French JR** (2008) *Historical changes in the seabed of the greater Thames estuary*. Caird-Crown Estate Research Project. London, Crown Estate, 53pp. ISBN 978-1-906410-04-9.
3. **French JR** (ed.) (2004) *Critical concepts in coastal geomorphology*. London, Routledge, 566pp. ISBN 0-415-27611-X.
4. Warren A & **French JR** (eds.) (2001) *Conservation and the physical environment*. Chichester, John Wiley & Sons, 356pp. ISBN 0-471-98498-X (pbk) 0-471-98498-1 (hbk).
5. Clifford NJ, **French JR** & Hardisty J (eds.) (1993) *Turbulence: perspectives on flow and sediment transport*. Chichester, John Wiley, 360pp. ISBN 0-471-93900-5 (hbk).

Book chapters

1. **French JR**, Benson T & Burningham H (2005) Morphodynamics and sediment flux in the Blyth estuary, Suffolk, UK: conceptual modelling and high resolution monitoring. In: J Knight & D Fitzgerald (eds.) *High resolution morphodynamics and sedimentary evolution of estuaries*. New York, Springer, 143-71.
2. Reed J, Chappell AJ, **French JR** & Oliver MA (2002) Risk assessment of PCB-contaminated dock sediments using geostatistical techniques. In: A Porta, RE Hinchee & M Pellei (eds.) *Management of Contaminated Sediments (Volume S1-2)*. Battelle Press, Columbus Ohio, 129-36.
3. Reed J, Chappell A, **French JR**, & Oliver MA (2001) Geostatistical analysis of contaminated dredged sediment from a UK dockyard. In: P Monestiez, D Allard, & R Froideraux (eds.) *GeoEnv III – Geostatistics for Environmental Application*. Dordrecht, Kluwer Academic, 487-97.
4. Warren A & **French JR** (2001) Relations between nature conservation and the physical environment. In: A Warren A & **JR French** (eds.) *Conservation and the physical environment*. Chichester, John Wiley & Sons, 1-5.
5. **French JR** & Reed DJ (2001) Physical contexts for saltmarsh conservation. In: A Warren A & **JR French** (eds.) *Conservation and the physical environment*. Chichester, John Wiley & Sons, 179-228.

6. **French JR** & Spencer T (2001) Sea-level rise. In: A Warren A & **JR French** (eds.) *Conservation and the physical environment*. Chichester, John Wiley & Sons, 305-47.
7. Cahoon DR, **French JR**, Spencer T, Reed DJ & Möller I (2000) Vertical accretion versus elevational adjustment in UK saltmarshes: an evaluation of alternative methodologies. In: K Pye & JRL Allen (eds.) *Coastal and estuarine environments: sedimentology, geomorphology and geoarchaeology*. Geological Society of London Special Publication 175, 223-38.
8. Clifford NJ & **French JR** (1998) Restoration of channel physical environment in smaller, moderate gradient rivers: geomorphological bases for design criteria. In: B Sherwood (ed.) *U.K. floodplains*. Otley, Westbury, 63-82.
9. Clifford N, Hardisty J, **French JR** & Hart S (1993) Downstream variation in bed material characteristics: a turbulence-controlled form-process feedback mechanism. In: J Best (ed.) *Braided rivers: form, process and economic implications*. Geological Society of London Special Publication 75, 89-104.
10. Clifford NJ & French JR (1993) Monitoring and modelling turbulent flows: historical and contemporary perspectives. In: NJ Clifford, **JR French** & J Hardisty (eds.) (1993) *Turbulence: perspectives on flow and sediment transport*. Chichester, John Wiley, 1-34.
11. Clifford NJ & **French JR** (1993) Monitoring and analysis of turbulence in geophysical boundaries: some analytical and conceptual issues. In: NJ Clifford, **JR French** & J Hardisty (eds.) (1993) *Turbulence: perspectives on flow and sediment transport*. Chichester, John Wiley, 249-77.
12. **French JR**, Clifford NJ & Spencer T (1993) High frequency flow and suspended sediment measurements in a tidal wetland channel. In: NJ Clifford, **JR French** & J Hardisty (eds.) (1993) *Turbulence: perspectives on flow and sediment transport*. Chichester, John Wiley, 93-120.
13. **French JR** & Clifford NJ (1992) Estimation of turbulence parameters in highly unsteady tidal flows. In: RA Falconer, K Shiono & RGS Matthew (eds.) *Hydraulic and Environmental Modelling: Estuarine and River Waters*. Aldershot, Ashgate, 41-52.
14. Spencer T & **French JR** (1992) Geomorphologically-informed conservation of coastal depositional landforms and associated habitats. In: C Stevens, JE Gordon, CP Green & MG Macklin (eds.) *Conserving our landscape: Evolving landforms and Ice Age heritage*. Peterborough, English Nature: 69-73.

Peer-reviewed journal and proceedings articles

1. Hanson SE, Nicholls RJ, Balson P, Brown I, **French JR**, Spencer T & Sutherland WJ (in press) Capturing coastal geomorphological change within regional integrated assessment: an outcome-driven fuzzy logic approach. (in press) Capturing coastal geomorphological change within regional integrated assessment: an outcome-driven fuzzy logic approach. *Journal of Coastal Research*.
2. Burningham H & **French JR** (in press) Seabed morphodynamics in a large coastal embayment: 180 years of change in the Greater Thames estuary. *Hydrobiologia*.
3. Singh CR, Thompson JR, Mackay AW & **French JR** (2010) Implication of climate change for the restoration of an ecologically driven hydrological regime for Loktak Lake, northeast India. *Hydrology and Earth System Sciences* 14, 1-21.
4. **French JR** (2010) Critical perspectives on the evaluation and optimisation of complex numerical models of estuary hydrodynamics and sediment dynamics. *Earth Surface Processes & Landforms* 35, 174-89.
5. Barrett-Mold C, Burningham H & **French JR** (2009). Stratigraphic insights from sedimentary peels of littoral estuarine depositional systems. *Journal of Coastal Research* SI56, 584-8.
6. **French JR** & Burningham H (2009). Restoration of an eroded estuarine foreshore using cohesive dredge material, Orwell estuary, UK. *Journal of Coastal Research* SI56, 1444-8.
7. Burningham H & **French JR** (2009). Historical seabed mobility in an outer estuary - sea basin environment. *Journal of Coastal Research* SI56, 589-93.

8. **French JR** & Burningham H (2009) Coastal geomorphology: trends and challenges. *Progress in Physical Geography* 33, 117-29.
9. **French JR**, Burningham H & Benson T (2008) Tidal and meteorological forcing of suspended sediment flux in a muddy mesotidal estuary. *Estuaries and Coasts* 31, 843-859.
10. **French JR** (2008) Hydrodynamic modelling of estuarine flood defence realignment as an adaptive management response to sea-level rise. *Journal of Coastal Research* 24, 1-12.
11. Benson T & **French JR** (2007) InSiPID: A new low cost instrument for in situ particle size measurements in estuaries. *Journal of Sea Research* 58, 167-188.
12. Burningham H & **French JR** (2007) Morphodynamics and sedimentology of mixed-sediment inlets. *Journal of Coastal Research Special Issue* 50, 710-15.
13. **French JR** (2006) Tidal marsh sediment trapping efficiency and resilience to environmental change: exploratory modelling of tidal, sea-level and sediment supply forcing in predominantly allochthonous systems. *Marine Geology* 235, 119-36.
14. Cea L, **French JR** & Vázquez-Cendón ME (2006) Numerical modeling of the tidal flow in complex estuaries including turbulence: an unstructured finite volume solver and experimental validation. *International Journal for Numerical Methods in Engineering* 67, 1909-32.
15. Burningham H & **French JR** (2006) Morphodynamic behaviour of a sand-gravel ebb-tidal delta: Deben estuary inlet, Suffolk, UK. *Marine Geology* 225, 23-44.
16. **French JR** & Burningham H (2003) Tidal marsh sedimentation versus sea-level rise: a southeast England estuarine perspective. In: NC Kraus & WG McDougal (eds.) *Coastal Sediments 03*. New York, American Society of Civil Engineers, 1-14.
17. **French JR** (2003) Airborne lidar applied to estuarine hydraulic modelling. *Earth Surface Processes & Landforms* 28, 321-35.
18. Moller I, Spencer T, **French JR**, Leggett DJ, & Dixon M (2001) The sea defence value of saltmarshes - a review in the light of field evidence from North Norfolk. *Water & Environmental Management* 15, 109-16.
19. **French JR** & Clifford NJ (2000) Hydrodynamic modelling as a basis for explaining estuarine environmental dynamics: some computational and methodological issues. *Hydrological Processes* 14, 2089-108.
20. **French JR**, Watson CJ, Moller I, Spencer T, Dixon M & Allen R (2000) Beneficial use of cohesive dredgings for foreshore recharge. *Proceedings 35th MAFF Conference of River and Coastal Engineers*, 11.10.1-4.
21. Möller I, Spencer T, **French JR**, Leggett D & Dixon M (2000) A new perspective on the sea defence value of saltmarshes. *Proceedings 35th MAFF Conference of River and Coastal Engineers*, 11.11.1-4.
22. French CE, **French JR**, Clifford NJ & Watson CJ (2000) Sedimentation-erosion dynamics of abandoned reclamations. *Continental Shelf Research* 20, 1711-33.
23. French CE, **French JR**, Clifford NJ & Watson CJ (1999) Abandoned reclamations as analogues for sea defence realignment: implications for engineering design. In: NC Kraus & WG McDougal (eds.) *Coastal Sediments 99*. New York, American Society of Civil Engineers, 1912-26.
24. **French JR**, Watson CJ & French CE (1999) Stability of dredged silt placed on an eroding estuarine foreshore. In: NC Kraus & WG McDougal (eds.) *Coastal Sediments 99*. New York, American Society of Civil Engineers, 2520-33.
25. Möller I, Spencer T, **French JR**, Leggett DJ & Dixon M (1999) Wave transformation over salt marshes: a field and numerical modelling study from North Norfolk, England. *Estuarine Coastal & Shelf Science* 49, 411-26.
26. Reed DJ, Spencer T, Murray AL, **French JR** & Leonard L (1999) Marsh surface sediment deposition and the role of tidal creeks: implications for created and managed coastal marshes. *Journal of Coastal Conservation* 5, 81-90.

27. Smith GM, Spencer T, Murray AL & **French JR** (1998) Assessing seasonal vegetation change in coastal wetlands with airborne remote sensing. *Mangroves & Saltmarshes* 2, 15-28.
28. Moeller I, Spencer T & **French JR** (1996) Wave attenuation over salt marsh surfaces. *Journal of Coastal Research* 12, 1009-16.
29. **French JR**, Spencer T, Murray AL & Arnold NA (1995) Geostatistical analysis of sediment deposition in two small tidal wetlands, Norfolk, UK. *Journal of Coastal Research* 10, 308-21.
30. **French JR**, Spencer T & Reed DJ (1995) Sea-level change and coastal landforms. *Earth Surface Processes & Landforms* 20, 1-6.
31. **French JR** (1994) Wetland response to accelerated sea-level rise: a European perspective. In: CW Finkl (ed.) *Coastal hazards: perception, mitigation and susceptibility. Journal of Coastal Research Special Issue* 12, 94-105.
32. **French JR** (1993) Numerical modelling of vertical marsh growth and response to rising sea-level, Norfolk, UK. *Earth Surface Processes & Landforms* 18, 63-81.
33. **French JR** & Spencer T (1993) Dynamics of sedimentation in a tide-dominated backbarrier salt marsh, Norfolk, UK. *Marine Geology* 110, 315-31.
34. Hands MR, **French JR** & O'Neill A (1993) Recent reef stress at Cahuita Point, Costa Rica: anthropogenically-enhanced sediment influx or natural geomorphic change?. *Journal of Coastal Research* 9, 11-25.
35. Spencer T & **French JR** (1993) Coastal flooding and environmental change. *Geography* 78, 179-82.
36. **French JR** & Clifford NJ (1992) Characteristics and 'event-structure' of near-bed turbulence in a macro-tidal saltmarsh channel. *Estuarine and Coastal Shelf Science* 31, 49-69.
37. **French JR** & Stoddart DR (1992) Hydrodynamics of saltmarsh creek systems: implications for marsh morphological development and material exchange. *Earth Surface Processes & Landforms* 17, 235-52.
38. **French JR** (1991) Eustatic and neotectonic controls on salt marsh sedimentation. In: Kraus NC, Gingerich KJ & Kriebel DL (eds.) *Coastal Sediments 91*. New York, American Society of Civil Engineers, 1223-36.
39. Clifford NJ, McClatchey J & **French JR** (1990) Discussion: Measurements of turbulence in the benthic boundary layer over a gravel bed and comparison between acoustic measurements and predictions of the bedload transport of marine gravels. *Sedimentology* 37, 161-71.
40. Stoddart DR, Reed DJ & **French JR** (1989) Understanding salt marsh accretion, Hut Marsh, Norfolk, England. *Estuaries* 12, 228-36.

Conference proceedings, book chapters & reports (excluding abstracts)

1. Williams A, Townend I, **French JR**, Reeve DR, Whitehouse R, Wang Z, Morris K, & Surendran S (2008) Development and demonstration of systems-based estuary simulator: EstSim. *Proceedings 43rd Flood and Coastal Management Conference*. 1-10.
2. Hanson S, Nicholls R, Balson P, Brown I, **French J**, Spencer T and Sutherland W (2007) Capturing coastal morphological change within regional integrated assessment: an outcome-driven fuzzy logic approach. *Tyndall Centre Working Paper* 113, 39pp.
3. Cea L, Puertas, J, **French JR** & Vázquez-Cendón M (2005) Simulación numérica del flujo de marea en estuarios con llanuras inunables: aplicación al Estuario Crouch. *Proceedings Congreso de Metodos Numericos en Ingenieria 2005*, Granada, Spain, 1-15. [in Spanish]
4. **French JR** (2003) Tidal deltas. In: AS Goudie (ed.) *Encyclopedia of Geomorphology*. London, Routledge, 1052-54.
5. **French JR** (2003) Mudflats and muddy coasts. In: AS Goudie (ed.) *Encyclopedia of Geomorphology*. London, Routledge, 704-6.

6. **French JR** (2003) Saltmarsh. In: AS Goudie (ed.) *Encyclopedia of Geomorphology*. London, Routledge, 898-900.
7. Barker MJ & **French JR** (2003) *Essex coast: scientific research bibliography*. University College London, CERU, 24pp.
8. Barker MJ & **French JR** (2003) *Suffolk coast: scientific research bibliography*. University College London, CERU, 32pp.
9. Barker MJ & **French JR** (2003) *Morecambe Bay: scientific research bibliography*. University College London, CERU, 15pp.
10. Barker MJ & **French JR** (2003) *Thames Estuary: scientific research bibliography*. University College London, CERU, 35pp.
11. **French JR** & Benson T (2002) Telemac 2D and 3D hydrodynamic modelling of a morphologically complex estuary in SE England. *Proceedings Telemac Users Conference, Paris*, November 2001.
12. **French JR**, Reeve DR & Owen M (2002) Estuaries Research Programme Phase 2. *Flood & Coastal Defence Research News* 3, 9.
13. Adams BJ, **French JR** & Clifford NJ (1998) Aerial photography as a source of saltmarsh channel network measurements: an analysis of errors. *Proceedings 24th International Conference on Remote Sensing*, 695-702.
14. Spencer T, Tudhope AW & **French JR** (1997) Reconstructing sea-level change from coral micro-atolls, Tongareva (Penrhyn) Atoll, Northern Cook Islands. *Proceedings 8th International Coral Reef Symposium* Volume 1, 489-94.
15. Spencer T, Moeller I & **French JR** (1996) Wind wave attenuation over salt marsh surfaces. In: Sir William Halcrow & Partners (ed.) *Management of saltmarshes for flood defence*. Bristol, National Rivers Authority, 46-54.
16. **French JR** (1996) Function and optimal design of saltmarsh channel networks. In: Sir William Halcrow & Partners (ed.) *Management of saltmarshes for flood defence*. Bristol, National Rivers Authority, 85-95.
17. Clifford NJ & **French JR** (1996) Criteria for suspended sediment monitoring in river environments: field evaluation of contrasting turbidity sensor types using simulated transport events. *Proceedings River 96 Conference, Chicago*, Vol. 2, 754-61.
18. **French JR** (1996) Function and design of tidal channel networks in restored saltmarshes. In: P Gardiner (ed.) *Proceedings Tidal 96: Interactive symposium for practising engineers*. University of Brighton, Department of Civil Engineering, 128-37.
19. **French JR**, Spencer T, Murray A & Moeller I (1995) *Aspects of the geomorphology and ecology of the North Norfolk coast*. British Geomorphological Research Group Spring Field Meeting Guide. Cambridge, Department of Geography, 43pp.
20. **French JR** (with T Spencer, T Utanga, S Tudhope, R Barnes, W Sykes & M Wilson) (1995) Bathymetric chart of Penrhyn Atoll, Northern Cook Islands. SOPAC, Fiji.
21. **French JR** (1993, 2003) *The coastline of the Wash - scientific research bibliography*. University College London, CERU, 43pp. [revised with MJ Barker, 2003 (50pp)]
22. **French JR** (1993, 2003) *North Norfolk coast scientific research bibliography*'. University College London, CERU, 71pp. [revised with MJ Barker, 2003 (81pp)]
23. **French JR** & Spencer T (1990) *Geomorphology and ecology of saltmarshes at Scolt Head Island, north Norfolk*. Royal Geographical Society Field Excursion Guide. UCL, Department of Geography, 41pp.
24. **French JR**, Spencer T & Stoddart DR (1990) Backbarrier marshes of the north Norfolk coast: geomorphic development and response to rising sea-level. *University College London Discussion Papers in Conservation* 54, 35pp.
25. **French JR** (1988) *Sediment dynamics of the Rio Cricamola Delta, Laguna Chiriqui, Panama*. Science Report, Operation Raleigh Expedition 14B.
26. Stoddart DR, **French JR** & Bayliss-Smith TP (1987) Physical processes on Wash salt marshes. In: P Doody & B Barnett (eds.) *Research and Survey in Nature Conservation Series 9: The Wash*. Peterborough, Nature Conservancy Council, 64-76.

Selected contract / consultancy reports (*excluding minor and interim reports*)

1. **French JR** & Burningham H (2009) *Mapping the connectivity of large scale coastal geomorphological systems: Coastal system mapping with CmapTools tutorial*. Science Report – SC060074/PR2. Bristol, Environment Agency, 25pp.
2. Whitehouse R, Balson P, Blott S, Burningham H, Cooper N, **French JR**, Guthrie G, Hanson S, Houghton A, Leggett D, Nicholls R, Pye K & Walkden M (2009). Characterisation and prediction of large scale, long-term change of coastal geomorphological behaviours: Final Science Report – SC060074/SR2. Bristol, Environment Agency, 271pp.
3. Whitehouse R, Balson P, Blott S, Burningham H, Cooper N, **French JR**, Guthrie G, Hanson S, Houghton A, Leggett D, Nicholls R, Pye K & Walkden M (2009). Characterisation and prediction of large scale, long-term change of coastal geomorphological behaviours: Inception Report – SC060074/SR1. Bristol, Environment Agency, 145pp.
4. **French JR** (with Burningham H, Karunarathna H, Morris K, Reeve DE, Townend I & Williams A) (2007) *Development and demonstration of systems-based estuary simulators*. London, DEFRA, Project Report FD2117/TR, 247pp.
5. **French JR** & Burningham H (2006) *Methods and software tools for estuary behavioural system simulation*. London, DEFRA, FD2117 Project Report 4, 105pp.
6. Nicholls RJ, Hansen S, Balson P, Brown I, **French JR** & Spencer T (2005) *Capturing geomorphological change in the coastal simulator*. Final Report from Tyndall Research Project T3.42. Tyndall Centre Technical Report 46, 70pp.
7. Moller I, Spencer T, & **French JR** (2003) Wave attenuation over saltmarshes: implications for flood defence management. Saltmarsh Management Handbook, Environment Agency, Anglian Region.
8. **French JR**, Reeve DE & Owen M (2002) DEFRA/EA Estuaries Research Programme – Phase 2 Research Plan. London, DEFRA, 64pp.
9. Moller I, Spencer T, & **French JR** (2002) Wave attenuation over saltmarshes. R&D Technical Report W5B-022, Environment Agency, Anglian Region, 95pp.
10. **French JR** (2001) *Hydrodynamic modelling of the Blyth estuary, Suffolk: impacts of sea-level rise*. Environment Agency, Anglian Region, 113pp.
11. **French JR** & Townend I (2001) Prioritisation of estuarine research in support of broad scale modelling. DEFRA/EA Joint Flood & Coastal Defence Programme, Topic Note, 4pp.
12. **French JR** (2000) *Foreshore recharge for restoration of eroded intertidal profiles: Shotley Point mud placement. Year 3 Monitoring and Evaluation*. Harwich Haven Authority, 38pp.
13. **French JR** & Watson CJ (2000) *Foreshore recharge for restoration of eroded intertidal profiles: Shotley Point mud placement. Year 2 Monitoring and Evaluation*. Harwich Haven Authority, 62pp.
14. Watson CJ, & **French JR** (1999) *Erosion control scheme, Copperas Wood, Stour estuary, Essex: Preliminary evaluation of tyre raft installation*. (JEI-EEI Technical Report 99/1), 15pp.
15. **French JR** & Watson CJ (1999) *Wave and Tide Monitoring and Analysis, Crouch/Roach estuaries: Final Report*. Environment Agency, Anglian Region, 102pp.
16. **French JR** & Watson CJ (1999) *Foreshore recharge for restoration of eroded intertidal profiles: Shotley Point mud placement. Year 1 Monitoring and Evaluation*. Harwich Haven Authority, 73pp.
17. Watson CJ, & **French JR** (1999) *Hydrodynamic assessment, Crouch/Roach estuaries*. Environment Agency, Anglian Region, 28pp.
18. Spencer T, **French JR**, & Möller IM (1997) *Wave attenuation over saltmarsh surfaces*. Environment Agency, Anglian Region, Supplementary Report OI/569/4/A.
19. **French JR** (1997) *Shoreline Management: Wave and Tide Data: Analysis of tidal and wave data and recommendations for future monitoring, River Blyth* (contract 100921/282). Environment Agency, Anglian Region, 47pp.

20. **French JR** (1997) *Shoreline Management: Wave and Tide Data: Analysis of tidal and wave data and recommendations for future monitoring, River Alde* (contract 100921/280). Environment Agency, Anglian Region, 63pp.
21. **French JR** (1997) *Shoreline Management: Wave and Tide Data: Analysis of tidal and wave data and recommendations for future monitoring, River Deben* (contract 100921/281). Environment Agency, Anglian Region, 50pp.
22. **French JR** & Spencer T (1996) *Shoreline Management: Wave and Tide Analysis: Final Report, River Blyth* (contract 100921/282). Environment Agency, Anglian Region.
23. **French JR** & Spencer, T (1996) *Shoreline Management: Wave and Tide Analysis: Final Report, River Alde* (contract 100921/280). Environment Agency, Anglian Region.
24. **French JR** & Spencer, T (1996) *Shoreline Management: Wave and Tide Analysis: Final Report, River Deben* (contract 100921/281). Environment Agency, Anglian Region.
25. **French JR** (with T Spencer, T Utanga, S Tudhope, R Barnes, W Sykes & M Wilson) (1993) *The Northern Cook Islands Scientific Expedition 1993*. Report to the Gilchrist Trust, London, 64pp.
26. **French JR** (1993) Measurement and geostatistical analysis of patterns of sediment accumulation in coastal wetlands. Report to MAB-UNESCO, Paris 37pp.

External research funding

Principal research grants and contracts (total value > £1.2M + £0.8M matching since 1990)

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| 2009 | Fluor plc / HR Wallingford (with H Burningham) <i>Historical morphodynamics of the Gabbard and Galloper banks, southern North Sea</i> |
| 2008 | Crown Estate (with H Burningham) <i>Historical changes in the seabed of the greater Thames</i> |
| 2007-2009 | EA (with HR Wallingford & others) <i>Characterisation and prediction of large scale long-term change of coastal geomorphological behaviours</i> |
| 2004-2007 | DEFRA (with ABPmer, BGS & others): <i>Development and implementation of estuary behavioural system simulators - EstSim</i> |
| 2003-2004 | Tyndall Centre for Climate Change: <i>Capturing geomorphological change in the coastal simulator</i> (with RJ Nichols, P Balson & T Spencer) |
| 2002-2008 | English Nature <i>Framework consultancy: coastal geomorphology and shoreline management</i> (Lead consultant, with H Burningham & others) |
| 2001 | DEFRA (£20k) <i>Estuarine Research Programme Phase 2 Research Plan</i> |
| 2001-2003 | NERC (£196k), with £840k industrial matching from RMC Aggregates Ltd & EA <i>Formation of a new river channel</i> (with G Petts, A Gurnell, N Clifford & P Angold) |
| 2000-2001 | EA (£36k) <i>Wave energy dissipation by coastal marshes</i> (with University of Cambridge) |
| 1999 | EA (£10k) <i>Tidal hydrodynamics of the Crouch and Roach estuaries</i> |
| 1998 | EA (£105k) <i>Wave and tide monitoring and analysis: Crouch and Roach estuaries</i> |
| 1997-2000 | Harwich Haven Authority (£70k) <i>Foreshore recharge evaluation, Orwell estuary</i> |
| 1997 | NERC (£11k) <i>Mapping estuary margins using airborne remote sensing</i> |
| 1997 | EA (£17k) <i>Hydrodynamics of the Blyth estuary, Suffolk</i> |
| 1996 | EA (£5k) <i>Analysis of extreme tides and waves, Suffolk</i> |
| 1996-1999 | Jackson Environment Institute (£136k) <i>Estuarine environmental dynamics</i> (with NJ Clifford & GE Hollis) |
| 1995-1996 | NRA (£150k) <i>Hydrodynamics of Suffolk estuaries</i> (with T Spencer) |
| 1995 | NRA (£6k) <i>Wave energy dissipation by saltmarshes</i> (with T Spencer) |
| 1994 | NRA (£3k) <i>Wave energy dissipation by saltmarshes</i> (with T Spencer) |
| 1994 | Nuffield Foundation (£1k) <i>¹³⁷Caesium in salt marsh sediments</i> |
| 1993 | Royal Society (London) Research Grant (£3.5k, with T Spencer) |
| 1992-1993 | Gilchrist Trust Biennial Expedition Award, <i>Northern Cook Islands scientific expedition</i> (£10k, with T Spencer) |

Research profile: Professor Jon French

1992-1993 UNESCO UK Young Scientist Award (£4k) *European tidal wetlands & sea-level rise*
1990 British Geomorphological Research Group Small Research Grant

DEFRA = Department for Environment Food & Rural Affairs; NERC = Natural Environment Research Council; EA = Environment Agency; NRA = National Rivers Authority (now, EA).

Travel grants

2007 Indian Statistical Institute (visit to Kolkata)
2006 BP (Invited international expert, Future of the Gulf Coast Summit, New Orleans)
2004 International Association of Sedimentologists (visit to Copenhagen)
1999 United States Geological Survey (visit to Louisiana)
1994 National Science Council, Taiwan (research visit to Taiwan)
1991 Louisiana Universities Marine Center (research visit to USA)
1991 Royal Society of London Travel Grant (research visit to USA)
1991 University of London, Central Research Fund (research in Costa Rica)