

# The antiquity of Jaffna Fort: new evidence from post-disaster archaeological investigations in northern Sri Lanka

Christopher Davis<sup>1,\*</sup>, Robin Coningham<sup>1</sup>, Prishanta Gunawardhana<sup>2</sup>, P. Pushparatnam<sup>2,3</sup>, Armin Schmidt<sup>1</sup> & Mark Manuel<sup>1</sup>

*Post-disaster archaeological investigations at Jaffna Fort have revealed material demonstrating pre-colonial contact, shedding new light on the importance of the site in Indian Ocean trade and communications networks before European occupation.*

*Keywords:* Sri Lanka, Indian Ocean, Jaffna Fort, post-disaster archaeology, maritime trade

The Dutch East India Company besieged the Portuguese fort at Jaffna in March 1658. With terms of surrender agreed on 22 June 1658, they encountered a site “battered to pieces” (Baldaeus 1703: 798) and proceeded to level or remodel damaged structures. The outer works were completed in 1792, transforming the site from a quadrangle to a pentagonal fortification (Figure 1), but the poorly provisioned Dutch garrison surrendered to British forces three years later without firing a shot (Nelson 1984: 82–83). More recently, Jaffna Fort was a strategic and symbolic focus during the conflict between the Sri Lankan Government and the Liberation Tigers of Tamil Eelam—a humanitarian catastrophe that also destroyed cultural heritage.

This heritage is now a focus for efforts to address reconciliation, renewal and peacebuilding through tourism and its associated economic impacts (Pushparatnam 2014). Conservation to date has concentrated on colonial-era structures (Mudiyanselage 2011). Recent discoveries uncovered during the construction of new visitor infrastructure, however, including Rouletted Ware (c. 200 BC–AD 200) (Tomber 2000; Ford *et al.* 2005) and ceramics from East and West Asia (Pushparatnam 2015: 88–90), point to both the presence of vulnerable earlier sub-surface heritage and the site’s potential time-depth and place in island-wide and Indian Ocean exchange networks (Ragupathy 1987; Rajan & Rama 1994; Begley 1996; Weisshaar *et al.* 2001; Coningham 2006; Carswell *et al.* 2013).

The ‘Jaffna Fort Post-Disaster Archaeological Research Project’ responded to this context in 2017 by beginning to map, identify and characterise its cultural sequences through excavation, unmanned aerial vehicle (UAV) and ground-penetrating radar (GPR) surveys (Figure 2). Transposing methodologies for post-disaster heritage co-designed in post-earthquake Nepal (Coningham *et al.* 2018) (Figure 3), the team aimed to protect

<sup>1</sup> Department of Archaeology, Durham University, South Road, Durham DH1 3LE, UK

<sup>2</sup> Central Cultural Fund of Sri Lanka (CCF), Bauddhaloka Mawatha, Colombo, 07, Sri Lanka

<sup>3</sup> Department of History, University of Jaffna, Thirumelvely, Jaffna, 70140, Sri Lanka

\* Author for correspondence (Email: [christopher.davis@durham.ac.uk](mailto:christopher.davis@durham.ac.uk))



Figure 1. UAV image of Jaffna Fort, looking west.

archaeologically sensitive areas as well as refine typologies from Jaffna's first scientifically dated sequences.

GPR survey identified rectilinear anomalies below the Parade Ground (Figure 4) that may represent structures from the Portuguese Fort, including the church, 'Our Lady of Miracles', which was cleared by the Dutch. Although monuments from earlier periods were destroyed, there is a history of reincorporation with earlier tombstones and bells reinterred inside the Dutch-era *Kruys Kerk* and pre-colonial carved granite blocks within rubble at the site, probably recycled from Hindu temples demolished by the Portuguese (Pushparatnam 2015: 96–98).

In addition to European-produced artefacts, pre-colonial contact materials were successfully recovered, particularly from excavations close to a new septic tank (Figure 5). Black and Red Ware, *Dusun Jars*, Early Islamic glazed wares, *Rouletted Ware* and Ming porcelain were excavated from contexts without European-contact artefacts, confirming the pre-colonial significance of Jaffna Fort. Importantly, new ceramic types were identified, including sherds exhibiting rouletting and stamped radial designs, illustrating both Jaffna's uniqueness and central place within international Indian Ocean networks (Figure 6). Unfortunately, these finds were from within mixed deposits above the natural bedrock. While we await scientific dating confirmation, the *terminus ante quem* for the earliest phases is estimated to be the seventh or eighth century AD, although many individual items date to the first millennium BC.



*Figure 2. Professor Pushparatnam, Director, CCF Jaffna and Professor Gunawardhana, Director-General CCF, with participants from the University of Jaffna and CCF at the start of the 2017 field season.*



*Figure 3. Post-disaster excavations at the Krays Kerk.*

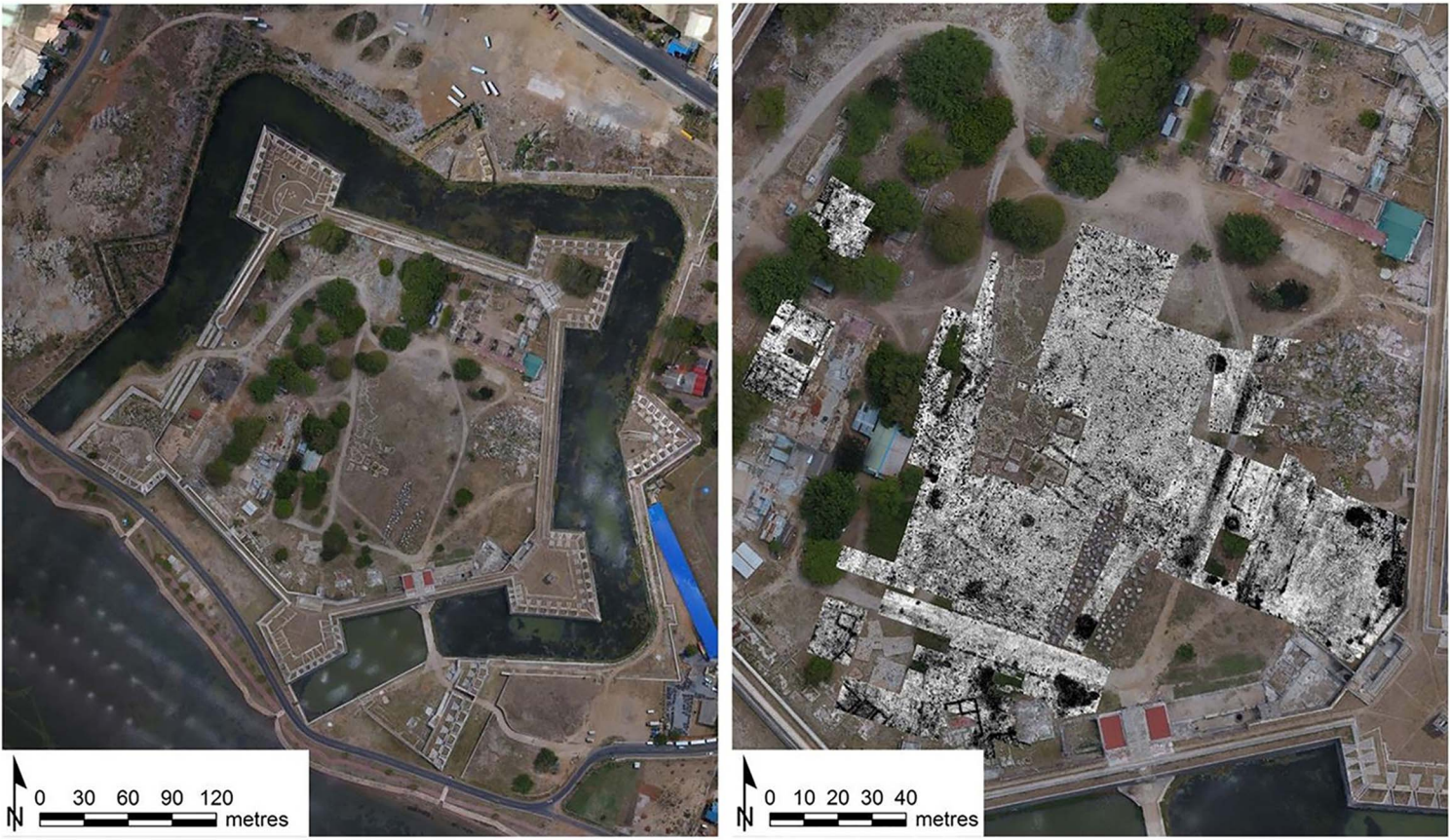


Figure 4. UAV map of Jaffna Fort (processed with Pix4Dmapper software) with GPR survey results at a depth of 0.8m.



*Figure 5. Excavations near the new toilet block and septic tank.*



Figure 6. *Artefacts from the 2017 excavations.*

Further HEFCE-GCRF-sponsored excavations will investigate the GPR anomalies potentially representing Portuguese-era monuments, and continue to seek secure stratigraphic sequences to provide robust scientifically dated evidence for the origins of Jaffna and its role within the development of international trade and communication networks before and beyond European contact.

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