

**Department of Anthropology**  
**ANTHRO 207 – Coming of the Māori**  
**Semester 2, 2018**



In this course we use archaeological evidence to investigate the origins and prehistory of Māori. The course emphasizes how archaeological techniques can be used to understand cultural dynamics in the past, particularly those relevant to Aotearoa New Zealand's early human history. By the end of this course you should be able to answer the following questions:

When did the ancestors of Māori arrive and from where?

How did the ancestors of Māori adapt to the environments of Aotearoa?

Who settled the Chatham Islands, and how was their history different from mainland Māori?

How did settlement patterns, material culture and local economies change over time?

How did these vary between different regions and between the North and South Islands?

When and why did Māori begin building *pa* (i.e., fortifications)?

How did Māori culture change with the arrival of Europeans?

How is the material heritage of Māori being conserved?

In this class you will learn how to think like an archaeologist and use material remains to understand life in the past. This will include developing an understanding of methods and techniques that are commonly used in New Zealand archaeology, such as radiocarbon dating, faunal analysis, and geophysical survey. The aim of the course is to acquaint you with the current archaeological evidence and theories regarding the first human settlement of Aotearoa New Zealand.

**Course Convenor**

Ben Davies

HSB 717 ph. 88570

Office hours: Wednesdays 4 – 5PM

Thursdays 11AM – 12 PM or by appointment

[b.davies@auckland.ac.nz](mailto:b.davies@auckland.ac.nz)

## Lectures

Wednesdays 2:00 – 4:00 PM, 201N-352 (Human Sciences Building North, Room 352)

Lectures are held for two hours, once per week. Lectures will be held in a range of formats, including. You are expected to attend all lectures. Some lectures will have associated presentation slides (Powerpoint) published on Canvas but you should not rely on these for lecture notes.

## Tutorials

Fridays 9:00 – 10:00 AM, 206-315 (Arts 1, Room 315)

Tutorial sessions are scheduled once per week, and you are expected to attend each week. **Some materials for assessment will only be covered during the tutorial period.** Tutorial rooms and times may be subject to change. Please consult SSO for up-to-date information.

## Course Readings

Each lecture has associated readings, listed in this course outline and available through Canvas, that you are expected to read **before the lecture and tutorial**. These readings have been chosen to enhance your understanding of the lecture topics, facilitate your tutorial discussions for that week and assist you as you prepare your assignments. Reading them in advance will greatly enhance your learning through attending class, and **some of the material in the readings will appear in the final test.**

## Course Communications

We will communicate with you via email using Canvas and your university e-mail account. Please ensure that your correct e-mail address is in the system and that your inbox is not full. The University of Auckland policy is that once an email is sent, you are assumed to have received it. Failure to read a message will not be accepted as a reason for failure to perform.

## Course Assessment

This course is assessed for 15 points. The University expects that students will spend approximately 10 hours per week on each course inclusive of lecture and tutorial times.

Your final grade in this course is based on your performance on three assessments: two tests and an essay. You must undertake all the assessments to pass the course. **Failure to do so will result in a DNC grade.** Further details related to the essay and essay topics will be given out later in the term. See the Course Schedule for due dates.

Late assignments will be penalised at the one letter grade (A, A-, B+ etc.) per day, including weekend days. Assignments will not be accepted more than two weeks after the due date without a medical certificate.

Assessment	Weight	Due date(s)	Week number
Mid-term test	30%	Friday 17 <sup>th</sup> Aug	Week 5
Essay	40%	Fri 28 September	Week 9
Final test	30%	Friday 14 <sup>th</sup> Sept	Week 12

### *Mid-term test (30%)*

The in-class test is a combination of short answer and essay questions, testing your knowledge of the course from weeks 1 – 5. Questions must be answered using complete sentences: lists, bullet points will not be accepted. Students will be given the duration of a one-hour tutorial period to complete the test.

### *Essay (40%)*

Students will choose an essay topic from a list to be distributed via Canvas during the third week of the course. It is expected that the essay will be approximately 2500 words in length, with references cited where appropriate. The purpose of this assignment is to develop reading, critical thinking and writing skills. It will require you to do library research and to relate what you read to archaeological concepts from lectures and readings. Please consult the Essay Writing Guide on Cecil for correct referencing and style, or see the course convenor for questions about essay writing.

### *Final test (30%)*

The final test consists of essay, short answer, and multi-choice questions, and will be administered during the final lecture period. The test will cover topics from the entire course, and some of the exam material will be known to students ahead of time to prepare. Students will be given the duration of a one-hour tutorial period to complete the test.

### *Submitting essay assignment*

Digital copies of essay assignments must be submitted via the course **Turnitin** page. To submit an essay, go to <http://www.turnitin.com> to create an account, and then join the course with the following credentials.

- Class ID: 18371437
- Password: Lapita

Instructions for submitting a paper, including accepted document formats, can be found here: [http://turnitin.com/en\\_us/training/student-training/submitting-a-paper](http://turnitin.com/en_us/training/student-training/submitting-a-paper) If you have trouble joining the Turnitin course, please contact the course convenor as soon as possible. You are advised to **join the course well in advance of the essay due date**, as lack of access to Turnitin will not be accepted as grounds for an extension.

### *Extensions*

Extensions will be given in cases where there is a relevant and valid reason for your inability to complete the assignment on time – usually illness, accident or bereavement. When granted, extensions will reflect the amount of time you are prevented from working on your assignment. **If an extension is needed, please contact the course convenor as soon as possible.** A certificate from your physician or other professional should be submitted along with the request. Extensions for exams are not permitted. Information about applications for aegrotat or compassionate consideration for exams can be found here:

<http://www.auckland.ac.nz/uoaf/currentstudents/academiclife/aegrotatinfo.cfm>

### *Plagiarism*

Please note that plagiarism or the submission of essays that are not the original work of the student **will not be tolerated under any circumstances**. Plagiarism includes copying the work of another without attribution, submitting similar assignments to more than one course, and using work obtained from commercial services (such as essay writing services). The University policies on academic integrity and plagiarism can be found here:

<https://www.auckland.ac.nz/en/students/forms-policies-and-guidelines/student-policies-and-guidelines/academic-integrity-copyright.html>

The University of Auckland has a helpful web resource, **ReferenCite**, that can help if you have questions about plagiarism and proper attribution:

<http://www.cite.auckland.ac.nz/index.html>

### Course Outline

All course readings can be found on Canvas, and are required reading unless otherwise noted. Course readings are expected to be completed before the start of their associated lecture.

## PART 1: POLYNESIAN ORIGINS (pre-AD 1200)

### WEEK 1

- **LECTURE 1: Introduction to Course: Objectives, Coursework, Nature of Archaeological Inquiry**

#### Required Reading:

The syllabus! Look at the course aims and learning outcomes.

- **LECTURE 2: Human Settlement of the Pacific: Lapita and Polynesian Ancestors**

#### Required Reading:

Kirch, P. V. 2010. "Peopling of the Pacific: A Holistic Anthropological Perspective." *Annual Review of Anthropology* 39: 131–148.

#### Recommended Reading:

Sheppard, Peter J. 2011. "Lapita Colonization across the Near/Remote Oceania Boundary." *Current Anthropology* 52 (6): 799–840.

Matisoo-Smith, Elizabeth. 2015. "Ancient DNA and the Human Settlement of the Pacific: A Review." *Journal of Human Evolution* 79 (February): 93–104.

### WEEK 2

- **LECTURE 3: Polynesian Voyaging**

#### Required Reading:

Irwin, G. 2006. "Voyaging and settlement." In Howe, K.R., *Vaka Moana: Voyages of the Ancestors*, pp. 87-91. Auckland: David Bateman.

Anderson, A., 2017. "Changing perspectives upon Māori colonisation voyaging." *Journal of the Royal Society of New Zealand* 47(3): 222-231.

#### Recommended Reading:

Johns, Dilys A., Geoffrey J. Irwin, and Yun K. Sung. 2014. "An Early Sophisticated East Polynesian Voyaging Canoe Discovered on New Zealand's Coast." *Proceedings of the National Academy of Sciences* 111 (41): 14728–33.

- **LECTURE 4: The East Polynesian Homeland**

**Required Reading:**

Allen, Melinda. 2010. "East Polynesia". In I. Lilley (ed.), *Early Human Expansion and Innovation in the Pacific: Thematic Study*, pp. 137-182. Paris: International Council on Monuments and Sites (ICOMOS).

**PART 2: AOTEAROA COLONISATION & SETTLEMENT (AD 1200 – 1400)****WEEK 3**

- **LECTURE 5: Archaeological Approaches to Time: Dating Ancestral Māori Arrival**

**Required Reading:**

Lowe, D. J. and A. Pittari, 2014. "An ashy septingentenarian: the Kaharoa tephra turns 700 (with notes on its volcanological, archaeological, and historical importance)." *Geoscience Society of New Zealand Newsletter* 13: 1–13.

Wilmshurst, Janet M., Atholl J. Anderson, Thomas F. G. Higham, and Trevor H. Worthy. 2008. Dating the late prehistoric dispersal of Polynesians to New Zealand using the commensal Pacific rat. *Proceedings of the National Academy of Sciences* 105(22): 7676–7680.

**Recommended Reading:**

Jacomb, Chris, Richard N. Holdaway, Morten E. Allentoft, Michael Bunce, Charlotte L. Oskam, Richard Walter, and Emma Brooks. 2014. "High-Precision Dating and Ancient DNA Profiling of Moa (Aves: Dinornithiformes) Eggshell Documents a Complex Feature at Wairau Bar and Refines the Chronology of New Zealand Settlement by Polynesians." *Journal of Archaeological Science* 50: 24–30.

- **LECTURE 6: Migration Traditions, Early Colonial Ideas and Lingering Misconceptions**

**Required Reading:**

Walter, Richard and Michael Reilly, 2018. "Ngā hekenga waka: migration and early settlement." In M. Reilly, S. Dunan, G. Leoni, L. Paterson, L. Carter, M. Rātima, and P. Rewi (eds.), *Te Kōparapara: An Introduction to the Māori World*, pp. 65-85. Auckland: Auckland University Press.

Taonui, Rawiri. 2006. Polynesian oral traditions. In Howe, K.R., *Vaka Moana: Voyages of the Ancestors*, pp. 46-53. Auckland: David Bateman.

**WEEK 4**

- **LECTURE 7: Polynesians in Temperate Aotearoa**

**Required Reading:**

Anderson, Atholl. 2013. "A fragile plenty: pre-European Māori and the New Zealand environment." In E. Pawson and T. Brooking (eds.), *Making a New Land: Environmental Histories of New Zealand*, pp. 35-51. Dunedin: Otago University Press.

**Additional Reading:**

McWethy, David B., Cathy Whitlock, Janet M. Wilmshurst, Matt S. McGlone, Mairie

Fromont, Xun Li, Ann Dieffenbacher-Krall, William O. Hobbs, Sherilyn C. Fritz, and Edward R. Cook. 2010. "Rapid Landscape Transformation in South Island, New Zealand, Following Initial Polynesian Settlement." *Proceedings of the National Academy of Sciences* 107 (50): 21343–48.

McGlone, Matt S. 1989. "The Polynesian Settlement of New Zealand in Relation to Environmental and Biotic Changes." *New Zealand Journal of Ecology* 12: 115–29.

- **LECTURE 8: Early South Island Settlements**

**Required Reading:**

Anderson, Atholl, 2015. "Chapter 3: Pieces of the Past." In A. Anderson, J. Binney, and A. Harris, *Tangata Whenua: A History*, pp. 57-85. Wellington: Bridget Williams Books. **Read pages 57-71.**

**Other Recommended Reading:**

Anderson, Atholl and Ian Smith, 1996. The transient village in southern New Zealand. *World Archaeology*, 27(3): 359-71.

**WEEK 5**

- **LECTURE 9: Early South Island Economies**

**Required Reading:**

Oskam, Charlotte L., Allentoft, Morten E., Walter, Richard, Scofield, R. Paul, Haile James, Holdaway, Richard N., Bunce, Michael, and Jacomb, Chris. 2012. Ancient DNA analyses of early archaeological sites in New Zealand reveal extreme exploitation of moa (Aves: Dinornithiformes) at all life stages. *Quaternary Science Reviews* 52 (2): 41–48.

**Other Recommended Reading:**

Perry, George L. W., Andrew B. Wheeler, Jamie R. Wood, and Janet M. Wilmshurst. 2014. "A High-Precision Chronology for the Rapid Extinction of New Zealand Moa (Aves, Dinornithiformes)." *Quaternary Science Reviews* 105 (December): 126–35.

- **LECTURE 10: MID-TERM TEST (in class)**

**WEEK 6**

- **LECTURE 11: Early North Island Settlements**

**Required Reading:**

Furey, Louise. 2002. Conclusions. In *Houhora: A Fourteenth Century Maori Village in Northland*, pp. 121-131. Bulletin of the Auckland Museum 19. Auckland. ISSN 0067-0456

Allen, Melinda S. 2012. Molluscan foraging efficiency and patterns of mobility amongst foraging agriculturalists: a case study from northern New Zealand. *Journal of Archaeological Science* 39:295-307.

- **LECTURE 12: Early North Island Economies**

**Required Reading:**

Barber, Ian G. 2004. Crops on the border: The growth of archaeological knowledge of Polynesian cultivation in New Zealand. In L. Furey and S. Holdaway (eds.), *Change Through Time: 50 Years of New Zealand Archaeology*, pp. 169-192. Auckland: New Zealand Archaeological Association Monograph.

**Recommended Reading:**

Davidson, Janet, Foss Leach, Mike K. Burtenshaw, and Graham F. Harris. 2006. "Subterranean Storage Pits for Kumara (Sweet Potato, *Ipomoea Batatas* L. Lam.): Ethnographic, Archaeological and Experimental Research in New Zealand." *New Zealand Journal of Archaeology* 28: 5-49.

**\*\*\*MID-SEMESTER BREAK\*\*\***

**Monday 27 August - Saturday 8 September 2018**

**PART 3: THE "TRANSITIONAL" PHASE (AD 1400 – 1600)****WEEK 7**

- **LECTURE 13: Beyond Aotearoa: the Chathams, the Kermadecs, and the Subantarctic Islands**

**Required Reading:**

Maxwell, Justin J. and Smith, Ian W.G. 2015. A reassessment of settlement patterns and subsistence at Point Durham, Chatham Island. *Archaeology in Oceania* 50: 162-174.

**Recommended Reading:**

Anderson, Atholl. 2009. "Prehistoric archaeology in the Auckland Islands, New Zealand Subantarctic Region." In P. Dingwall, K. Jones, and R. Eggerton (eds.), *In Care of the Southern Ocean: An Archaeological and Historical Survey of the Auckland Islands*, pp. 9-38. Auckland: New Zealand Archaeological Association.

- **LECTURE 14: Wairarapa: A Case Study in Transitions**

**Required Reading:**

Anderson, Atholl. 2015. "Chapter 3: Pieces of the Past." In A. Anderson, J. Binney, and A. Harris, *Tangata Whenua: A History*, pp. 57-85. Wellington: Bridget Williams Books. **Read pages 72-76.**

Leach, Foss. 1981. The prehistory of the southern Wairarapa. *Journal of the Royal Society of New Zealand*, 11 (1): 11-33. [NOTE: The radiocarbon chronology in this publication is no longer considered accurate]

**WEEK 8**

- **LECTURE 15: Economic Transitions: Importance of *Kai Moana***

**Required Reading:**

Paulin, Chris D. 2007. Perspectives of Māori fishing history and techniques. Ngā āhua me ngā pūrākau me ngā hangarau ika o te Māori. *Tuhinga* 18: 11-47.

Williams, J. 2016. Seafood "gardens". *Journal of Polynesian Society* 125(4): 433-444.

**Recommended Reading:**

Smith, Ian. 2013. "Pre-European Maori Exploitation of Marine Resources in Two New Zealand Case Study Areas: Species Range and Temporal Change." *Journal of the Royal Society of New Zealand* 43 (1): 1–37.

**LECTURE 16: Material Culture Transitions: Stone Tools**

**Required Reading:**

Walter, Richard, Chris Jacomb, and Sreymony Bowron-Muth. 2010. "Colonisation, Mobility and Exchange in New Zealand Prehistory." *Antiquity* 84: 497–513.

Phillipps, Rebecca S., Andrew J. McAlister, and Melinda S. Allen. 2016. "Occupation Duration and Mobility in New Zealand Prehistory: Insights from Geochemical and Technological Analyses of an Early Māori Stone Artefact Assemblage." *Journal of Anthropological Archaeology* 42 (June): 105–21.

**Other Recommended Reading:**

Leach, Helen. 1990. Archaic adze quarries and working floors: An historical review. *Journal of the Polynesian Society* 99(4): 373-394.

**PART 4: EMERGENCE OF "CLASSIC" MĀORI (AD 1500 – 1800) & BEYOND**

**WEEK 9**

- **LECTURE 17: Population Growth, Conflict & Fortifications**

**Required Reading:**

Anderson, Atholl. 2015. "Chapter 3: Pieces of the Past." In A. Anderson, J. Binney, and A. Harris, *Tangata Whenua: A History*, pp. 57-85. Wellington: Bridget Williams Books. **Read pages 76-85.**

Barber, Ian G. 1996. "Loss, Change, and Monumental Landscaping: Towards a New Interpretation of the 'Classic' Māori Emergence." *Current Anthropology* 37: 868–80.

**Other recommended reading:**

Allen, Mark W. 1996. "Pathways to Economic Power in Maori Chiefdoms: Ecology and Warfare in Prehistoric Hawke's Bay." *Research in Economic Anthropology* 17: 171-225.

- **LECTURE 18: Community Organisation in Late Prehistory**

**Required Reading:**

Irwin, Geoffrey J. 2004. Kohika as a late northern Maori lake village. In G. Irwin (ed.), *Kohika: The Archaeology of a Late Maori Lake Village in the Ngati Awa Rohe, Bay of Plenty, New Zealand*, pp. 230-248. Auckland: Auckland University Press.

**Recommended Reading:**

Davidson, Janet M. 1984. "Chapter 7: Social life." In *The Prehistory of New Zealand*,



pp. 149-180. Auckland: Longman Paul.

Allen, Harry. 1996. "Horde and hapu: The reification of kinship and residence in prehistoric aboriginal and Maori settlement organisation." In J.M. Davidson, G. Irwin, B.F. Leach, A. Pawley, and D. Brown (eds.), *Oceanic Culture History: Essays in Honour of Roger Green*, pp. 657-74. Auckland: New Zealand Journal of Archaeology Special Publication.

**\*\*\*ESSAYS DUE\*\*\***

**Friday 28 September at 9:00 AM**

- **LECTURE 19: Māori Artistic Traditions**
  - **Contributing Lecturer: Gerard O'Regan**

**Required Reading:**

Hoerman, Rachel. 2016. "Pacific rock art from 2010 to 2014: research trends, conservation and losses." In P. Bahn, N. Franklin, M. Strecker, and E. Devlet (eds.), *Rock Art Studies: News of the World V*, pp. 205-213. Oxford: Archaeopress.

**Other Recommended Reading:**

Prickett, Nigel, 1997. *Early Maori Ornament, Nga Tohu Tawhito*. Auckland: David Bateman, Ltd.

Mallon, Sean. 2010. "Against Tradition." *The Contemporary Pacific* 22 (2): 362-381.

**WEEK 10**

- **LECTURE 20: Contact with New (Western) Arrivals**

**Required Reading:**

Prickett, Nigel. 2005. "The Taranaki archaeological landscape: past, present and future." *Archaeology in New Zealand* 48 (1): 45-60.

**Recommended Reading:**

Phillips, C., 2000. Post-contact landscapes of change in Hauraki, New Zealand. In R. Torrence and A. Clarke (eds.), *The Archaeology of Difference*, pp. 709-103. New York: Routledge.

Schaniel, William C. 2001. "European Technology and the New Zealand Maori Economy: 1769-1840." *The Social Science Journal* 38 (1): 137-46.

- **LECTURE 21: Archaeology of the Historic Period**

**Required Reading:**

Middleton, Angela. 2003. "Maori and European Landscapes at Te Puna, Bay of Islands, New Zealand, 1805-1850." *Archaeology in Oceania* 38 (2): 110-24.

**Recommended reading:**

Prickett, N. 1997. Fortifications of the New Zealand Wars. In M. Trotter, and B. McCulloch (eds.), *Digging Up the Past: New Zealand's Archaeological History*. pp. 110-113. Auckland: Viking Press.

- **LECTURE 22: Review of the Māori Cultural Sequence**

**Required Reading:** Review your lecture notes!

## WEEK 12

- **LECTURE 23: Heritage preservation**

**Required Reading:**

Piahana, Roy. 2006. Kaitiakitanga of cultural sites. *Archaeology in New Zealand*. 49 (4): 275-281.

<http://www.heritage.org.nz/protecting-heritage/archaeology/standard-archaeological-authority-process>

<http://www.heritage.org.nz/about-us/heritage-new-zealand-pouhere-taonga-act>

<http://www.heritage.org.nz/protecting-heritage/archaeology/videos>

**Other Recommended Reading:**

Walton, T. 1999. *Archaeological Site Recording in New Zealand*. NZAA Monograph 23. Auckland: New Zealand Archaeological Association. Available here:

<https://nzarchaeology.org/download/archaeological-site-recording-in-new-zealand>

- **LECTURE 24: FINAL IN-CLASS TEST (30%)**

## Photo credits

Clockwise from top left:

1) Lapita sherd Photographer: Doherty Moira. Researcher: Green, Roger Curtis [http://digitool.auckland.ac.nz/R/-?func=dbin-jump-full&object\\_id=28113&silolibrary=GEN01](http://digitool.auckland.ac.nz/R/-?func=dbin-jump-full&object_id=28113&silolibrary=GEN01);

2) Maori *kumara* pits (food storage pits) and terraces on the side of Big King, a volcanic cone in Auckland, New Zealand. Another cone, Mt Albert, can be seen in the distance. User: *Avenue*. [https://commons.wikimedia.org/wiki/File:Maori\\_terraces\\_and\\_kumara\\_pits\\_on\\_Big\\_King\\_Auckland.jpg](https://commons.wikimedia.org/wiki/File:Maori_terraces_and_kumara_pits_on_Big_King_Auckland.jpg);

3) Adze. Complete. Ground. Blade curved, bevel profile straight. Bevel chin defined. Haft polish on back. Width middle 41 mm, thickness middle 18 mm. Rectangular, back slightly narrower than the front. Greywacke. Marie Helliwell - Auckland War Memorial Museum [https://commons.wikimedia.org/wiki/File:Toki,1933.379,19598.30\\_\(d\).jpg](https://commons.wikimedia.org/wiki/File:Toki,1933.379,19598.30_(d).jpg) ;

4) Fishing hook, bone, Maori culture, 1800-1900. In the exhibition "Maori, their treasures have got a soul", in the Musée des Arts Premiers in Paris, from the end of 2011 to the beginning of 2012. By Vassil - Own work, CC0, <https://commons.wikimedia.org/w/index.php?curid=18031701> ;

5) Liam taking notes from Louise <http://fieldschool.blogs.auckland.ac.nz/page/6/>;

6) Shows Tongan canoes, with sails and cabins, and two Tongan men paddling a smaller canoe in the foreground; derived from "Boats of the Friendly Isles" a record of Cook's visit to Tonga, 1773-4, during his second circumnavigation of the world. Alexander Turnbull Library, Reference No.B-054-047 <https://commons.wikimedia.org/wiki/File:TonganCanoes.jpg>;

7) "A Maori man and Joseph Banks exchanging a crayfish for a piece of cloth." An alternative caption to this picture is "An English Naval Officer bartering with a Maori" and is attributed to "The Artist of the Chief Mourner". [https://commons.wikimedia.org/wiki/File:A\\_Maori\\_man\\_and\\_Joseph\\_Banks\\_exchanging\\_a\\_crayfish\\_for\\_a\\_piece\\_of\\_cloth\\_c.\\_1769.jpg](https://commons.wikimedia.org/wiki/File:A_Maori_man_and_Joseph_Banks_exchanging_a_crayfish_for_a_piece_of_cloth_c._1769.jpg);

8) Moriori Dendroglyph, Chatham Islands, New Zealand, around 1900. Alexander Turnbull Library, Wellington, New Zealand, ID=PA Coll-1964-27 [https://commons.wikimedia.org/wiki/Category:Moriiori#/media/File:Moriiori\\_carving\\_Chatham\\_Islands\\_1900.jpg](https://commons.wikimedia.org/wiki/Category:Moriiori#/media/File:Moriiori_carving_Chatham_Islands_1900.jpg);

9) Excavations in progress, Kauri Point Settlement site. 1963. Photographer: unknown. Researcher: Green, Roger Curtis. [http://digitool.auckland.ac.nz/R/-?func=dbin-jump-full&object\\_id=16767&silolibrary=GEN01](http://digitool.auckland.ac.nz/R/-?func=dbin-jump-full&object_id=16767&silolibrary=GEN01)