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Title

Science narratives : the construction, mobilisation and validation of Hydro Tasmania's case for Basslink.

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Bibliographic citation

Duncan, R (2004). Science narratives : the construction, mobilisation and validation of Hydro Tasmania's case for Basslink.. University Of Tasmania. Thesis. <https://doi.org/10.25959/23211953.v1>

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APPENDICES

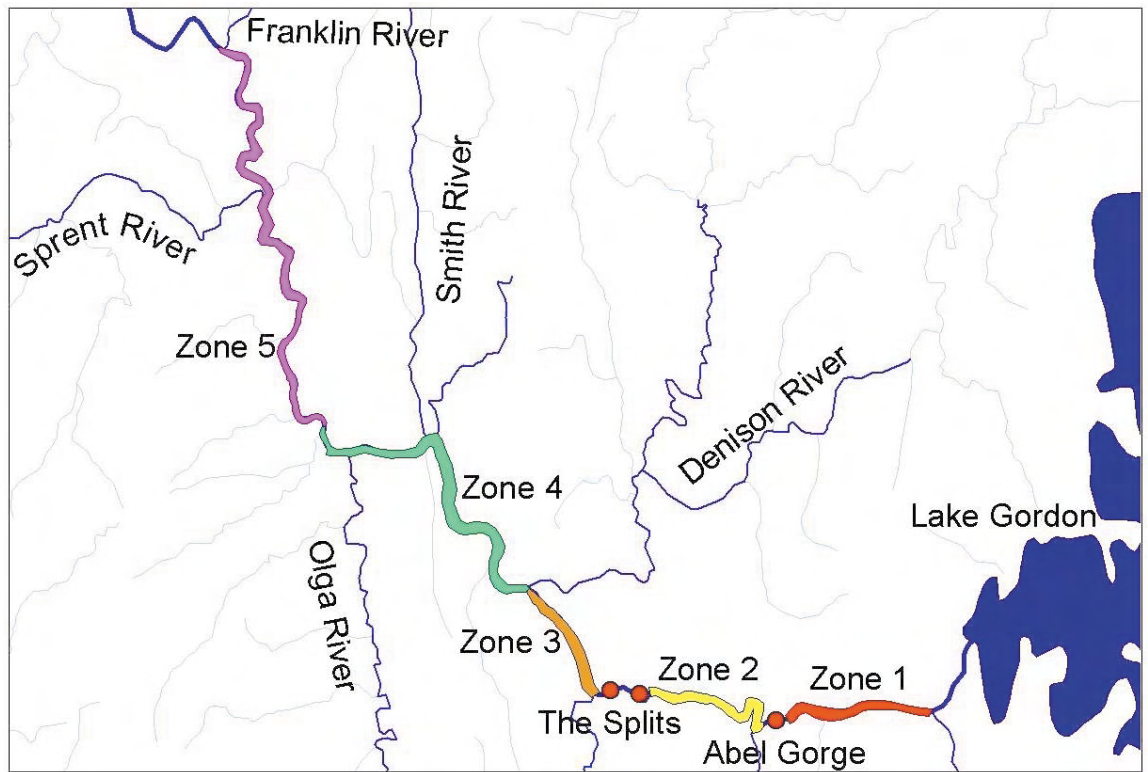
APPENDIX 1-1

**MAP OF GEOMORPHIC ZONES DELINEATED BY HYDRO TASMANIA ALONG
THE GORDON RIVER FROM LAKE GORDON DOWN TO THE FRANKLIN
RIVER**

APPENDIX 1-2

**MAP OF THE MIDDLE GORDON RIVER TRIBUTARIES BETWEEN LAKE
GORDON AND THE FRANKLIN RIVER.**

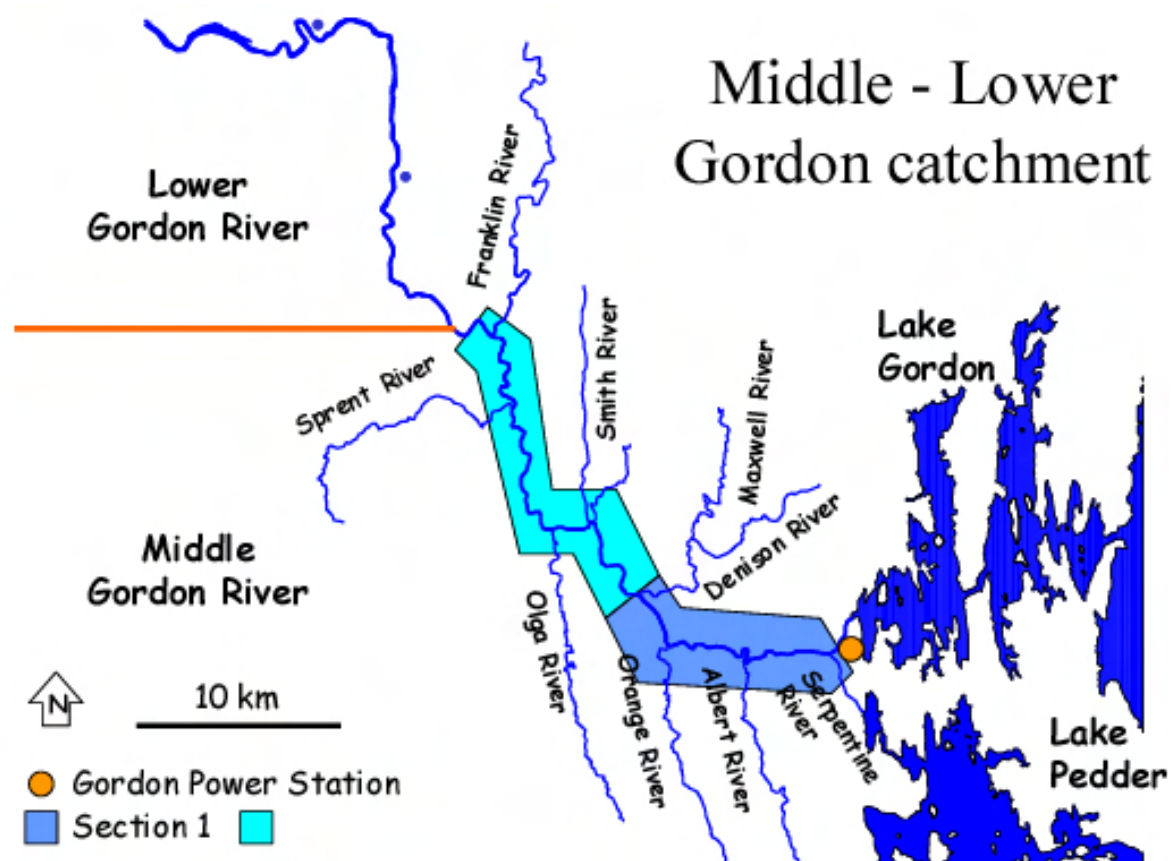
APPENDIX 1-1



Map of geomorphic zones delineated by Hydro Tasmania along the Gordon River from Lake Gordon down to the Franklin River.

Source: DIIS (2001b:8-11)

APPENDIX 1-2



Map of the Middle Gordon River tributaries between Lake Gordon and the Franklin River.

Source: Davies and Cook (2001a:9)

APPENDIX 2

**ADVERTISEMENT, 'NICE DAY FOR IT', PLACED IN VARIOUS PUBLICATIONS
BY HYDRO TASMANIA PROMOTING TASMANIA'S RENEWABLE ENERGY
AND BASSLINK**



Nice day for it.

Each year on Tasmania's west coast over three metres of sleet and rain is dumped onto a rugged landscape.

Along exposed coastlines and Bass Strait islands, howling gale-force winds often make it impossible to stand upright.

Isn't it fantastic?

More than 60% of Australia's renewable energy is generated in Tasmania... from nothing but water and wind. This is the power of nature. It is one of our greatest assets. Soon it will be one of our greatest exports.

www.hydro.com.au



Hydro Tasmania
the renewable energy business

MLL/B0946

APPENDIX 3

**PROMOTIONAL BROCHURE PUBLISHED BY HYDRO TASMANIA
'BASSLINK EMPOWERING TASMANIA (SAFEGUARDING THE
ENVIRONMENT)'**

****IMAGE UNAVAILABLE****

APPENDIX 4-1

EVENTS FROM THE GORDON POWER STATION $>240 \text{ m}^3/\text{s}$ USING A FOUR YEAR HISTORICAL DATASET OF HOURLY DATA (FIGURE 7) AND A 77 YEAR DATASET FROM THE PREDICTIVE MODELS (FIGURE 8).

APPENDIX 4-1

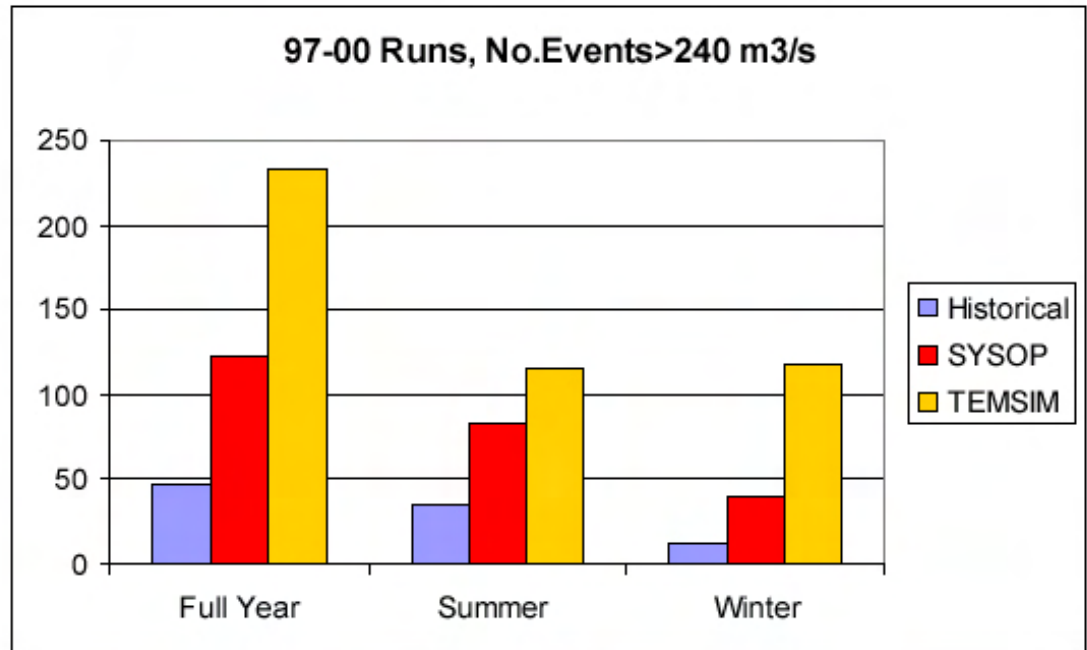


Figure 7

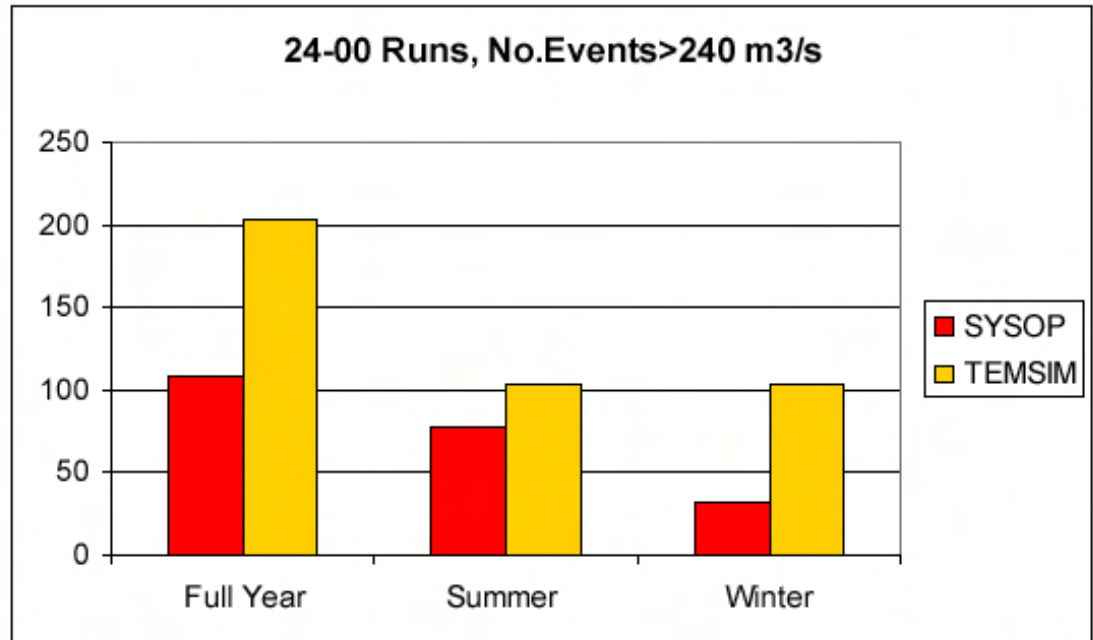


Figure 8

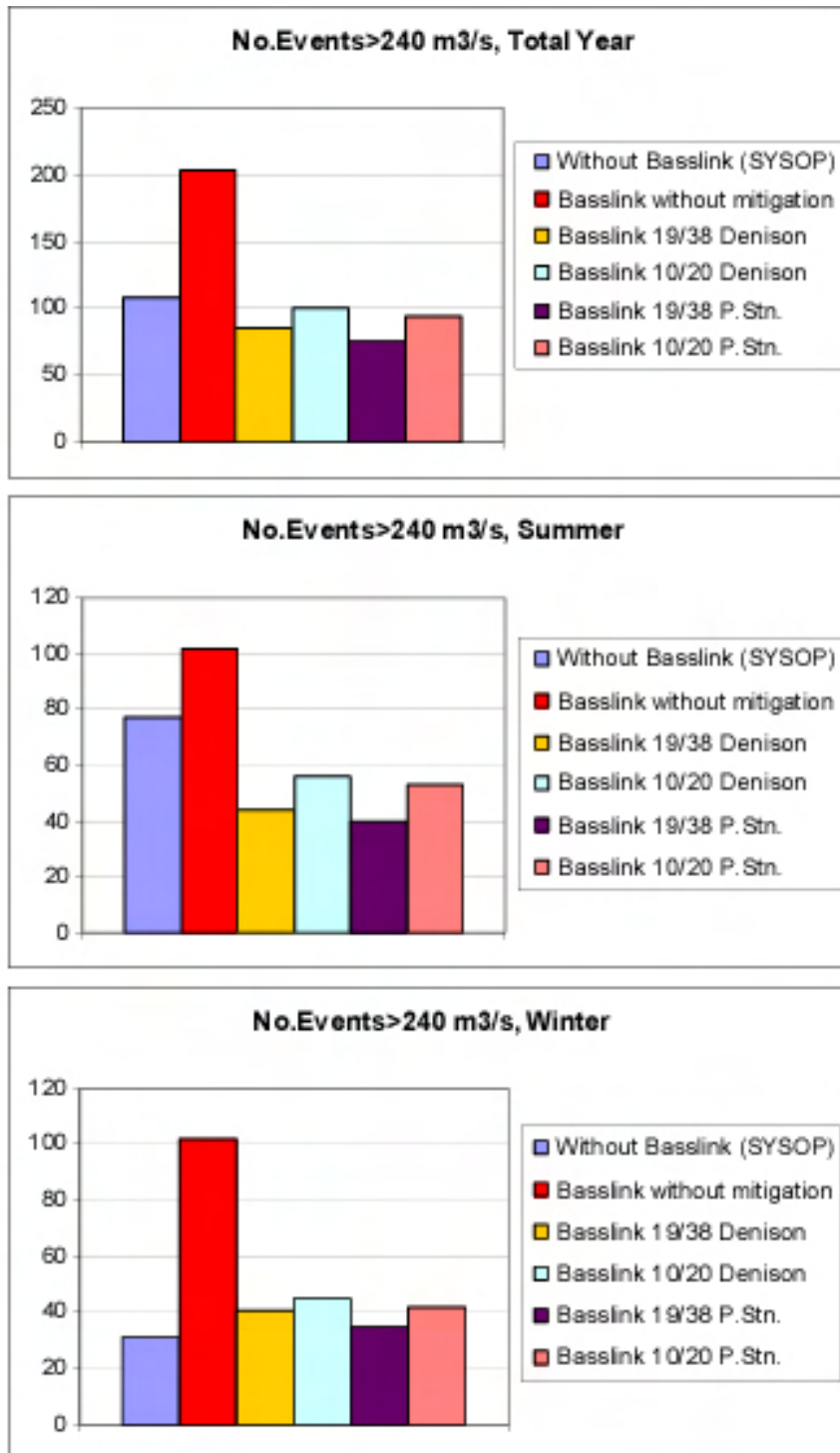
Events from the Gordon Power Station >240 m³/s using a four year Historical dataset

of hourly data (Figure 7) and a 77 year dataset from the predictive models (Figure 8).
Source: Peterson and Locher (2001a:10).

APPENDIX 4-2

**FIGURES 11 a,b,c:
NUMBER OF GORDON POWER STATION EVENTS $>240 \text{ m}^3/\text{s}$**

APPENDIX 4-2



Figures 11 a,b,c - Number of Gordon Power Station Events >240 m³/s

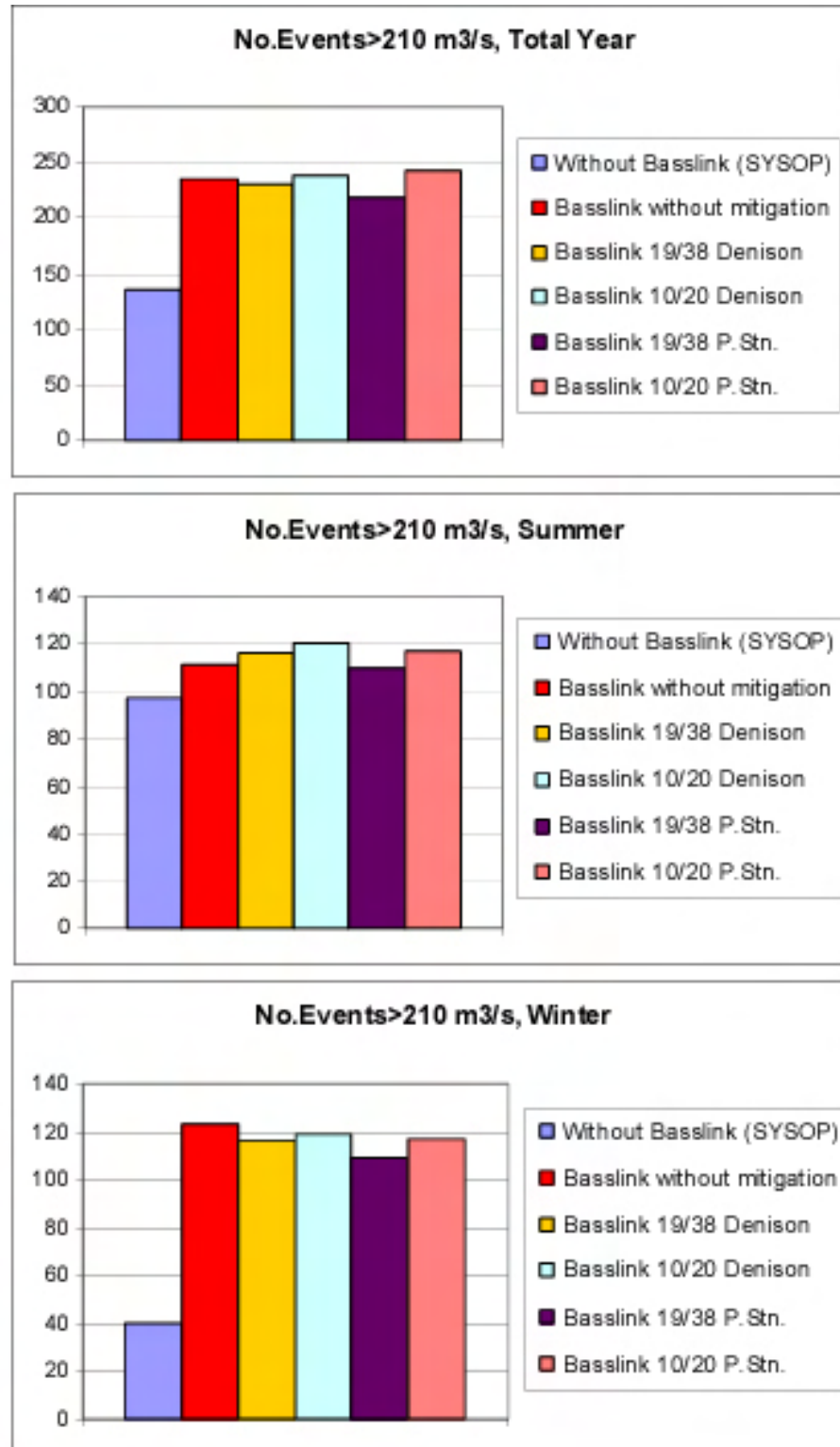
Source: Peterson and Locher (2001b:18).

APPENDIX 4-3

FIGURE 12 a,b,c:

NUMBER OF GORDON POWER STATION EVENTS $>210 \text{ m}^3/\text{s}$

APPENDIX 4-3



APPENDIX 4-4

**FIGURE 1 a,b,c:
EFFECTIVENESS OF MITIGATION MEASURES AT GORDON POWER STATION**

APPENDIX 4-4

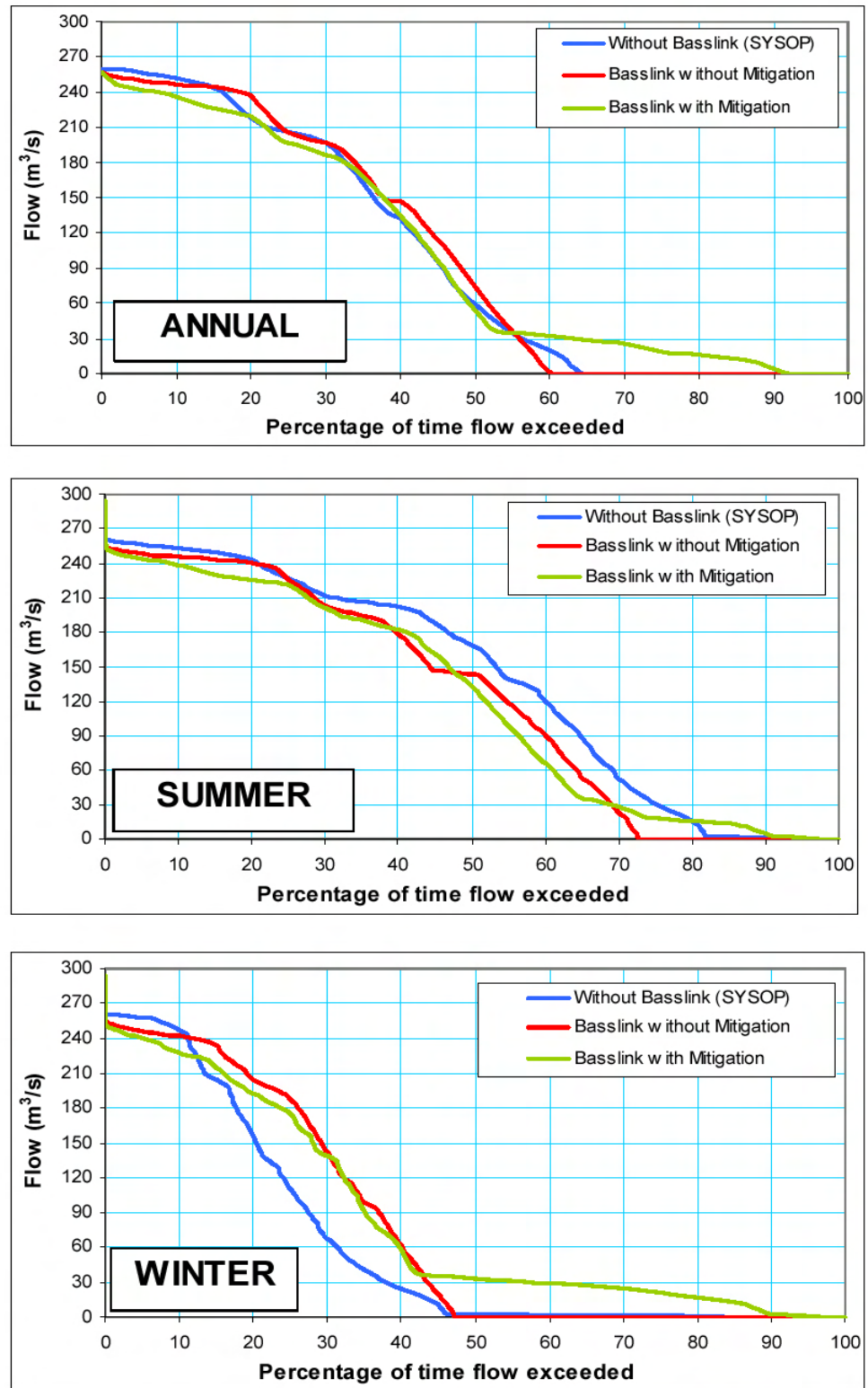


Figure 1 a,b,c - Effectiveness of Mitigation Measures at Gordon Power Station

Source: Peterson and Locher (2001b:7).

APPENDIX 4-5

**FIGURE 7 a,b,c:
TIME SERIES PLOTS FOR GORDON POWER STATION DURING A DRY
PERIOD (JANUARY 1999)**

APPENDIX 4-5

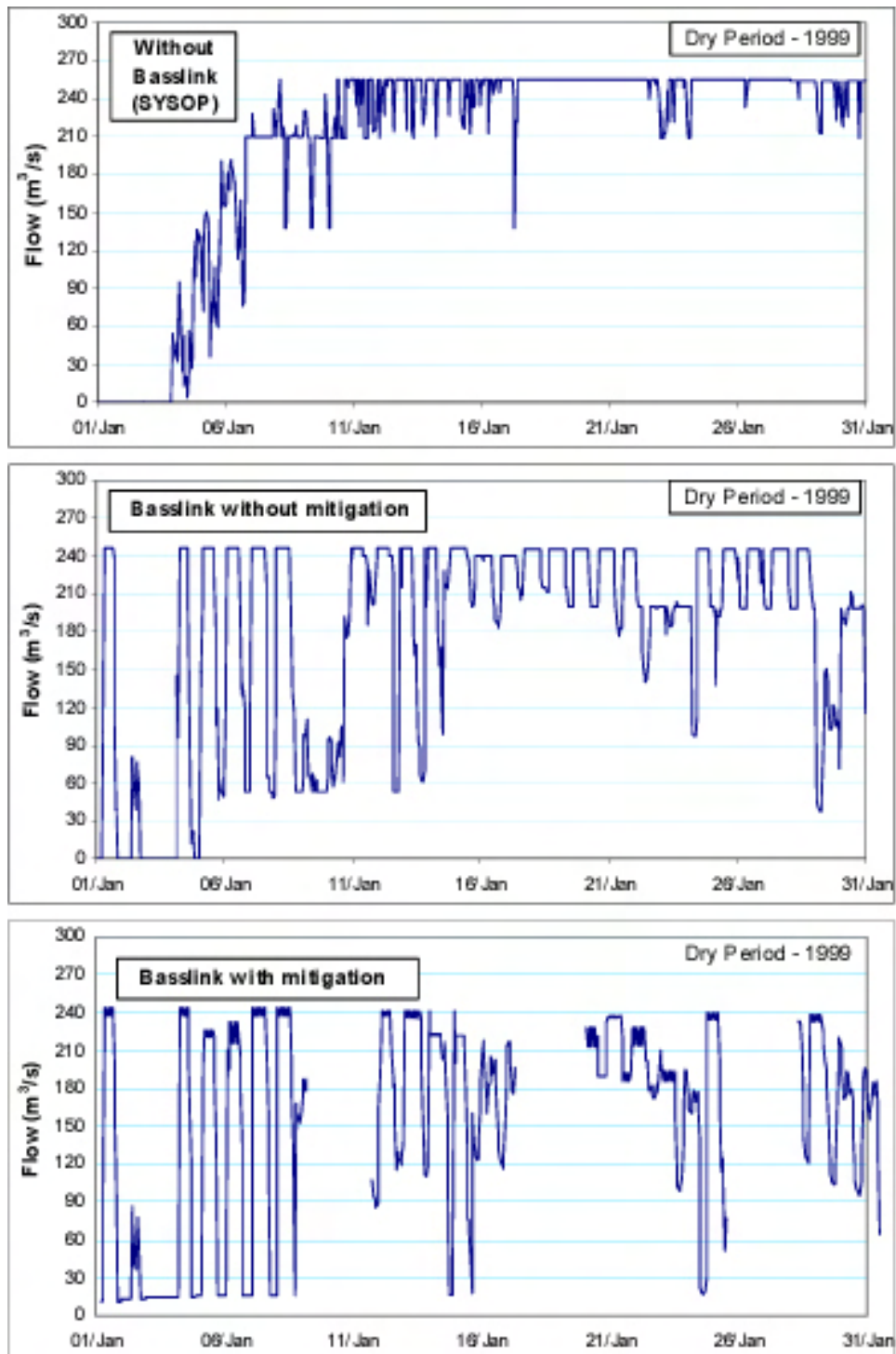
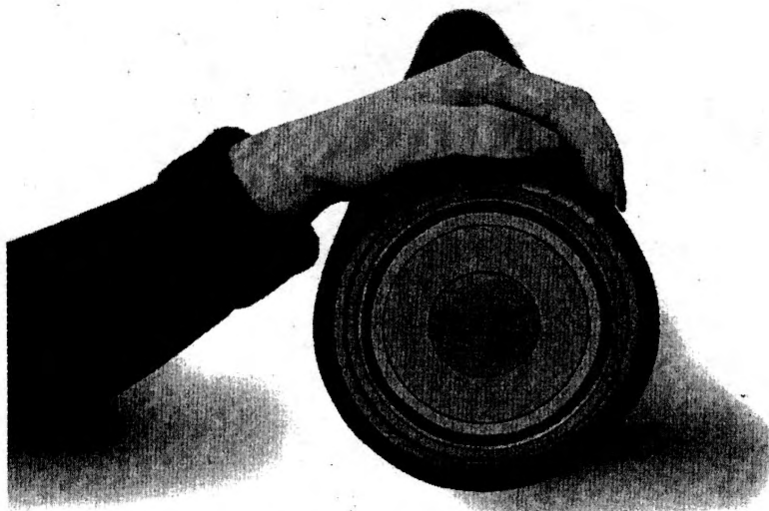


Figure 7 a,b,c - Time Series Plots for Gordon Power Station during a Dry Period (January 1999).

APPENDIX 5

**NEWSPAPER ARTICLE PUBLISHED IN *THE MERCURY* ON 17 OCTOBER 2001,
'THE TRUTH ABOUT BASSLINK'**



The truth about Basslink.

Basslink opponents have made a number of misleading claims.
Tasmanians are entitled to the truth.
Let's set the record straight on some key issues.

Blackouts

There will be no blackouts or power shortages with Basslink. In fact, Tasmania's power needs must be met before any power can be exported to Victoria.

The Cost of Basslink

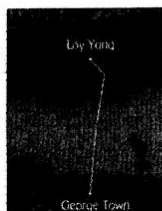
Basslink will be profitable for Hydro Tasmania. With Basslink, the Tasmanian economy will grow by \$110 million each year and avoid the running costs of using the oil-fired Bell Bay Power Station in times of drought.

Tasmanian Jobs

An independent expert study projects that Basslink will create nearly 200 construction jobs, as well as nearly 1000 indirect jobs in Tasmania.

Electricity Prices

A study by one of Australia's leading electricity pricing experts concludes that Tasmania's wholesale electricity prices will be an average 6% lower with Basslink.



Sale of the Hydro

Basslink provides even more reason to keep Hydro Tasmania in public hands. Basslink will connect Tasmania's power system to more than three million new customers on the mainland, earning more income for the Tasmanian community.

Legal Issues

Basslink complies with all Australian legislation including World Heritage Area guidelines and laws.

Protecting Tasmania's Environment

Hydro Tasmania will spend \$2 million annually on improvements to Tasmania's river and lake system when Basslink comes into operation.

Risk to the Taxpayer

Hydro Tasmania is a business. Any business faces risk. However with Basslink, Hydro Tasmania avoids the significant risk of running the expensive Bell Bay Power Station in times of drought.

Importing Power

Basslink is being designed to export more power than it imports. Basslink will allow Tasmania to develop its world-class wind resources, making us Australia's renewable energy powerhouse. Tasmania will import cheaper off-peak electricity from Victoria but overall, Basslink will reduce greenhouse gas impacts throughout Australia - the equivalent of taking two million cars off the road.



Hydro Tasmania
the renewable energy business



Basslink

Linking Tasmania to a world of opportunities.

APPENDIX 6

**A SELECTION OF PHOTOGRAPHS WHICH COMPARE THE STATE OF
RIPARIAN VEGETATION ON THE GORDON RIVER WITH ITS TRIBUTARIES**
See Davidson and Gibbons (2001a:Plates)

APPENDIX 7

**TABLE V. COMPARISON OF HISTORICAL AND BASSLINK DAILY FLOW
RECORDS AT THE GORDON POWER STATION
OVER A 10 YEAR PERIOD (1989-1998)**

AND

**TABLE VI. COMPARISON OF HISTORICAL AND BASSLINK HOURLY FLOW
RECORDS AT THE GORDON POWER STATION
OVER A ONE YEAR PERIOD (1997-1998)**

APPENDIX 7

Table V. Comparison of Historical and Basslink Daily Flow Records at the Gordon Power Station over a 10 year period (1989-1998)

STATISTICS	CURRENT OPERATION OF POWER STATION ¹	BASSLINK OPERATION OF POWER STATION
<i>Mean flow (m³/s)</i>	78	96
<u><i>Annual Mean Minimum Flow</i></u>		
1 Day Minimum (m ³ /s)	0	0
7 Day Minimum (m ³ /s)	1.2	0.1
<u><i>Annual Mean Maximum Flow</i></u>		
1 Day Minimum (m ³ /s)	222	240
7 Day Minimum (m ³ /s)	205	221
<u><i>The Number of Annual Events</i></u>	<u>Flow</u> <u>No. Events</u>	<u>Flow</u> <u>No. Events</u>
-Greater than mean flow	78 m ³ /s 14	96 m ³ /s 38
from and to 0 m ³ /s	0 m ³ /s 18	0 m ³ /s 25

¹Record contains missing values.

Table VI. Comparison of Historical and Basslink Hourly Flow Records at the Gordon Power Station over a one year period (1997-1998).

STATISTICS	CURRENT OPERATION OF POWER STATION ¹	BASSLINK OPERATION OF POWER STATION
<i>Mean flow (m³/s)</i>	116	115
<u><i>Annual Mean Minimum Flow</i></u>		
1 Hour Minimum (m ³ /s)	0	0
7 Day Minimum (m ³ /s)	6	0.3
<u><i>Annual Mean Maximum Flow</i></u>		
1 Hour Minimum (m ³ /s)	245	249
7 Day Minimum (m ³ /s)	206	229
<u><i>The Number of Annual Events</i></u>	<u>Flow</u> <u>No. Events</u>	<u>Flow</u> <u>No. Events</u>
-Greater than mean flow	116 m ³ /s 219	115 m ³ /s 297
-from and to 0 m ³ /s	0 m ³ /s 73	0 m ³ /s 254

¹Record contains missing values.

(Source: Palmer, *et al.* 2001:25)

