THE WEATHER MAKERS RE-EXAMINED			BIAS											*NEW RELEASE* 400 page BOOK
by Dr D W Allen			Baseless	Selection			Reporting							See details at bottom of spreadsheet
Flannery Statements - mostly shortened		Important Facts	Extreme	Dogmatic	Suspect Source	Half-truth	No uncertainty	Misrepresentation	Misinterpretation	Exaggeration	Factual Error	Confusing / Silly	Contradictory	Failed Preditions	Mistakes	**Allen Comments**
Title - The Weather Makers	**Page**											1				Weather is not climate / nature makes weather
Climate change a threat to civilisation (R Purves)	Foreword		1													Global cooling is the greater threat
a theory is only valid for as long as it has not been disproved	2											1				Who could disprove that Tim will go to a special monkey heaven!
Pollutants - known as greenhouse gases	3											1				Water vapour & CO2 pollutants?
By 1975, the first sophisticated computer models	4			1						1						They were very primitive / still not sophisticated enough
The heart of Earth's thermostat is CO2	5			1												Water is much more important
the gas lasts around a century in the atmosphere	5			1	1		1									57% of it is naturally sequested within a year
GHG reached levels not seen for millions of years	6				1		1									CO2 reached 348ppm during the early Holocene
Replacing 4WD with a hybrid reduces GHG by 70%	6			1								1				It can actually increase global GHG emissions
Vote for a politician who will sign Kyoto	8			1												Signing Kyoto in 2007 made no difference to emissions
SECTION 1 - GAIA'S TOOLS																
Drop of 0.1% in solar radiation reaching Earth can trigger an ice age	14				1								1			Compare with next statement
smog can cut sunlight by 10% and heat the lower environment and ocean	107				1						1					Smoke (which is what he is referring to) blocks sunlight, cooling the lower environment. This can cause an inversion and smog.
Earth's long-term climate stability could not have resulted from mere chance	14			1								1				Was it intelligent design? By Gaia?
Complex CO2-based explanation for no more Snowball-Earth events	16											1	1			Confusing and incompatible with known carbon cycle
"believes in Gaia" & "Gaian world view"	17											1				Belief / faith is not science
Every extinction is an act of self-mutilation	17											1				Even the smallpox virus?
A reductionist world view is responsible for climate change and [hence] the destruction of civilisation	17		1													Who is the reductionist here?
Gaia would sort it out - and rid herself of us	17		1													Man a parasite on the planet?
Limited mixing of atmosphere across equator	20	1														Yet CO2 is similar in SH when >90% of emissions are in NH
By trapping heat near the planet's surface GHGs both warm our world and account for the 'upside down' troposphere	23										2					1. GHGs trap heat in the upper troposphere & 2. the 'upside down' troposphere is produced by solar heating of Earth's surface
Most powerful GHG of all is water vapour	24										1					CFCs are more powerful/potent
CO2 reaching 1% would bring Earth's surface temp to boiling point	24		1		1					1						Without feedback, it would cause only about 5°C of warming
For a visceral understanding of how GHG work, visit New York in August.	24					1										Fails to mention UHI effect
atmospheric CO2 will double to 600ppm this century	26				1		1			1						On a trajectory for about 560ppm
This doubling of CO2 could heat planet by 3 ^{o} C and as much as 6 ^{o} C	26				1		1			1						IPCC says 1°C to 3.5^{o}C
Increasing CO2 in experiments made no difference to heat trapped	27	1														

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Positive feedback loop (from moisture in atmosphere) forces Earth's temperature to ever higher levels	28					1									Complicated by cloud formation
Clouds: No single factor contributes more to our uncertaintly of future climate predictions	28	1													
CO2 causes around 80% of all global warming	28					1		1	1						Lee Kump says no such thing
56% of CO2 from all fossil fuel burnt is still aloft	28			1						1					The opposite is true - 57 % is sequested within a year
during cold times CO2 levels have dropped to around 160 ppm, and	29			1						1					most ice core authorities state 180ppm
until recently, they never exceeded 280ppm	29									1					CO2 levels exceeded 300ppm during the MWP and 330ppm during the early Holocene
in 2002 & 2003, CO2 levels rose by 2.54 ppm (cf 1.8ppm pa over the previous decade)	29			1					1	1					There was no acceleration in 2002, 2003, or since
Coal-fired power plants are so inefficient that 2/3 energy is wasted	30		1		1										Modern power plants are 45-80% efficient
Methane is the next most important GHG after CO2	30	1													
over 100yrs, it is 60 times more potent than CO2	30			1						1					IPCC says methane is 21 times as potent
25 times as potent a greenhouse gas as is CO2.	258	1										1			Methane is about 25 times as potent over a 100-yr time frame
will cause 15-17% of all global warming this century	30		1	1		1									No reference given
Life is carbon-based	31	1													
were it not for plants and algae we would soon suffocate in CO2	31	1			1										Bacteria are also very important
Mature forests are not good carbon sinks	32	1													
Cold sea water can hold more carbon than warm water	33	1													
the oceans are becoming more acid	34		1							1					They are very slightly less alkaline
so marine creatures are unable to mke carbonate shells	35			1						1					Some are unaffected and some are better able
Even slight variations . . could make Earth uninhabitable	37			1					1						Alfred Wallace underestimated human resilience
Attributes to Arrhenius a good understading of GHG	40						1								His understanding was actually quite poor
In 1938 Callendar knew the cause of global warming was the burning of coal	41				1										It was then primarily solar warming
Notes correlation of sunspots with Earth's temperature	43	1													
but no testable physical mechanism yet identified	43				1										Unaware of Svensmark's work
GHGs warm the troposphere most at the bottom	44			1								1			Models predict max warming at 9km altitude
the medieval Earth was 1-2 ^{o} C warmer than today	44	1													
but patchy and the Earth overall was 0.03^{o}C cooler	44		1	1											Strong evidence for a global MWP
so the idea of a global Medieval Warm Period is ***bunk***	44		1			1									Hockey stick is bunk
American southwest was warmer than now 700 yrs ago	131	1										1			This was during the MWP
Permian-Triassic extinction about 251 million years ago	47	1													Accurate
245 million years ago (ma) the Permo-Triassic event	200									1		1			Inaccurate
65ma CO2 caused an abrupt spike in temperature	48		1			1				1					More likely that the temperature and extinction caused the CO2
the PETM extinction event 55ma was casused by a rapid rise in CO2	53				1	1									The rise in temperature predated the rise in CO2 by 3,000 years
55Ma an eruption of methane warmed our planet	188	1										1			

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the fastest warming 10-20 millennia ago was 1 ^{o}C per milennium	59		1			1				1					It actually exceeded 1°C per decade!
'roller-coaster rides' with 'sharpness of saw teeth'	61	1										1			Both statements can't be true
low temp & CO2 made it impossible to grow crops	62	1													Many crops can't grow below 150ppm of CO2
the medieval 'black plague' caused the Little Ice Age	67									1					Cooling preceded plague and caused rats and people to huddle
"carbon causes climate change"	70		1							1	1				Profound!
Brown coal is the most polluting of all fuels	72		1		1										Brown coal can be made less polluting
Recommends burning biomass	297											1			Biomass is even dirtier than brown coal
1986 marks the year that humans reached Earth's carrying capacity	78		1	1		1									Based on WWF Report - Population then 4.932 billion
Such profligate energy use is truly shocking	79		1									1			What about his own frequent long haul flights!
Principal cause of global warming is an increase in CO2	79		1			1									Accounts for 40% at most - see p 167
SECTION 2 - ONE IN TEN THOUSAND															
Climate change lept when 'magic gates' opened in 1976 and 1998	84				1				1						These were el Nino years at either end of a positive IPO
Decline in Pacific Ocean salinity of 0.8% since 1976	84							1		1					It has remained stable
Parmesan & Yohe: a huge study published in Science	87								1					1	Published in Nature & not 'huge'
found a poleward shift of 6m per decade	88				1	1									Of 168 bird species, 90 were stable or going equator-ward
Confuses Parmesan and Yohe with paper by Root et al	89													1	
rainforest possums threatened by CO2 affecting nutrition	92							1							This was based on seedlings grown in 790ppm of CO2
Climate change at the poles is occurring at twice the rate elsewhere	94		1						1						It may be faster but is not double, especially at the South Pole
Peril at the Poles: Antarctica turning green	95		1												Greenland turned white in LIA
Krill are in decline due to loss of sea ice	96					1				1					Due to harvesting of krill & increasing whale numbers
Alaskan spruce dying & forest spreading into tundra	98-99											1			Fewer trees or more trees in the Arctic?
In 1974 too little snow on Amundsen Gulf for seals to make dens	100											1			that was during a period of global cooling!
Hudson Bay's polar bears are now 15% skinnier	102				1										But much more plentiful
Some time this century no summer ice will be seen in the Arctic	103		1			1		1	1						Richard Betts (source) makes no such alarming statement
The changes we are witnessing at the Poles are of the runnaway type	103								1	1					Arctic was warmer around 1940, ice cap stable since 2007
no matter what humanity does it will be too late for reversal	103		1			1		1							Betts said no such thing
In 2002, El Niño conditions killed 90% of corals, affected 60% of GBR	109		1	1					1						No reference given
spiralling CO2 emissions is killing the reef	109		1												No basis
↑ 1°C →82% bleached, 2°C →97% & 3°C →100%	109			1											Australian Geographic article
CO2 turns the oceans acidic & prevents coral from secreting skeleton	111		1						1	1					Less alkaline (not acidic) - effect is minimal <1,000ppm CO2
a few species of coral might refuge in places like Sydney Harbour	113								1						Why so far south?
our fragile planet passed through the magic gate	114-5								1						Earth is hardly 'fragile'

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plunged the entire ecosystem of the mountaintop into crisis	118								1						Toads / frogs are not the entire ecosystem
Golden toad & 60% of frog species vanished	118	1													
the explanation of its demise was published in Nature	119			1											No reference given
We had killed it with our prolific use of coal-power and oversize cars	119		1							1					The real cause was the 1986–1987 El Niño event.
not a single species is definitely known to have become extinct because of climate change	114	1										1			compare with next statement
gastric brooding frog - Australia's first victim of climate change	120		1			1		1							unknown cause ?Chytrid fungus
El-Niño-like conditions brought dramatic decline in East-coast rainfall	121		1	1						1					normal cycles
less winter rain in Pacific northwest → shallower ponds	121									1					no significant change
→ more ultraviolet light → increased susceptability to chytrid fungus	121							1		1					minor role if any
NOAA models simulated Sahel drought based on GHG increasing SST	125				1	1			1						11 of the 19 models failed to produce drought
'single climatic variable' but also 'global dimming decreased SST'	126		1									1			all man's fault!
much of the American west has not been so dry for around 700 yrs	131								1	1					normal rainfall cycle
have to wait for decades or hundreds of years to see whether it is a natural cycle	132									1					records from 762-2005 & 1895-2010 reveal nothing unusual
the northwest remains in the grip of unprecedented drought.	132		1							1					nothing unusual - see graph
last 50yrs has seen a decline in the average amount of snow received	132-3				1			1							but not over last 100 yrs
5,000 yr ago the American southwest was a little warmer than today	134	1													No reason given for this
over just a few years the tropopause had risen several hundred metres	135			1				1	1						had risen half a metre per decade since 1979
By warming the troposphere we change the weather patterns globally and increase the likelihood of extreme weather events	136		1						1						The layer-averaged warming is only 0.032°C/decade (since 1979) and there is no solid evidence that this has affected the weather or caused extreme weather events
As the troposphere has warmed over the past decade, the world has seen the most powerful El Niño ever recorded (1997-98)	136		1												So why none more powerful since 1998?
the first South Atlantic hurricane ever (2002)	136													1	It was in 2004
the most damaging storm to hit the Americas in 200 yr	136				1										Mitch was the only top 10 hurricane since 'magic gate' of 1976 Honduran lives lost from flooding due largely to slash & burn
hurricanes are becoming more frequent in North America	137		1		1										fluctuate with AMO - more made landfall in 1887 than in 2005
long time before sufficient data accumulates to detect trend	138				1										speliothems over 780 years reveal no trend
increase in flood damage over recent decades has been profound	138		1	1											speech by Tony Blair! Flooding was greater during LIA
In 1960s 7 million people affected by flooding, now 150 mil	138		1		1										due to population growth and movement

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1990s warmest decade in central England since records began in 1660s	138	1			1										1660s was the depth of LIA
European summer of 2003 was so hot that, statistically speaking, such an event should occur no more often than every 46,000 years	139				1	1		1	1						the authors state that this very localised warming due to a Hadley Cell could have occured in MWP, in 1540 or in 1757
26,000 people died during June and July	139				1				-1						at least 35,000 died - a rare understimation
US heat-related deaths exceed all other weather-related causes	139		1	1						1					winters 16% more lethal than summers
GHG decreases temperature gradient from north to south	139	1													valid theory and evidence
between land and sea, and daytime temperature range		1													should therefore also reduce extreme weather events
Alice Springs experienced an increase of more than 3°C last century	140		1	1					1						no increase since 1880s
sea rose rapidly until stabilising about 8000 yr ago	143				1										far more complex than that
As recently as 2001, rising seas looked to be one of the least pressing problems	145									1					The IPCC projections have been decreasing since 1990
over 150 yrs oceans had risen 10-20 cm, which amounts to 1.5mm pa	145									1				1	10-20/150= 0.067 - 0.13 (1.0) mm/yr (it rose >24cm)
Over the 1990s the rate of sea level rise doubled to around 3mm/yr	145								1						it remained fairly linear at aout 2mm/yr
little if any of the Arctic ice cap will be left at the end of this century	144		1			1									No reduction since 2007
positive feedback loop will hasten the melting of remaining continental ice	145		1			1									This did not happen during the warmer 1940s
in a few decades there will be no glaciers left in America's Glacier NP	143		1			1			1						they have been advancing & retreating for millennia
in 2004 Greenland's glaciers were melting 10 times faster than previously thought	144		1	1					1		1				recently shown to be melting **half** as fast as previously thought
Patagonian ice fields are contributing more water per unit area to global sea level rise (0.1 mm per year) than even the gigantic glaciers of Alaska	147								1						Patagonia =3.8% (<0.017mm/yr sea level rise) cf.Alaska =24.4% of global glacial melt
Greenland ice cap contains enough water to raise sea levels by 7m	144								1						about 6.55m
temperatures cooling over highest parts of Greenland and Antarctica	144	1													and ice is accumulating there
information is also emerging for a sharp rise in temperature at depth	146			1											National Geographic & what caused this? See next statement:
takes 1,000yr or more for heat to reach the ocean depths	146	1										1			So sharp rise there must be medieval warming
Antarctica provides the most alarming news of melting ice	147				1				1						Ice is accumulating over East Antarctica
in Feb. 2002 the Larsen B ice-shelf broke up over a matter of weeks	147				1										Both A & B broke up 5000 yr ago and became maximal in LIA
glaciers feeding into the Amundsen increased their rate of discharge to around 250 km3/yr – enough to raise sea level by 0.25 mm pa	148				1			1		1					"almost 60% more than is accumulated within their catchment basins" so **net loss = 93km3/yr** (250km3/yr would raise sea-level >0.6mm)
increased precipitation at the Poles is expected to bring more snow	149	1													

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the West Antarctic ice sheet may soon break up as did the Eurasian Arctic 15,000 - 12,000 yrs ago	149					1										Eurasian Arctic & West Antarctica have 6 major differences
the Whillans ice stream, long thought to be stable. Yet the study revealed that it could move at the extremely rapid rate – for ice, at least – of one metre per hour.	149					1			1							moves every 6-18 hr a few tens of cm at rate of 1m/hr
West Antarctic ice sheet has enough water to raise sea levels 6-7m	149					1										3.3m - Bamber et al 2009
scientists are now debating whether humans have already tripped the switch that will create an ice-free Earth. If so, we have already committed our planet and ourselves to a rise in the level of the sea of f around 67m . . . (after 2050) . . . and it will take millennia to melt	150			1		1										it would take >100,000yrs for all the ice to melt & man adapted to twice that rise in a tenth of that time.
some scientists predict a rise in sea levels of 3-6m over a century or two	150		1							1						Overpeck, Cole et al
SECTION 3 - THE SCIENCE OF PREDICTION	151															
models are underestimating climatic consequences of GHG build-up	153			1							1					most models are overestimating them
clouds can both trap heat and reflect sunlight . . they can . . . powerfully heat or cool	155	1														models therefore do clouds poorly
Jack Hollander's division of empirical evidence from speculation reveals a poor understanding of how computer models work	156							1	1							The pot is calling the kettle black. Flannery thinks model 'projections' are 'climate change predictions'!
WMO's 17,000 thermometers (in Stevenson's boxes) show incontrovertable warming rate of 0.17°C/decade	158					1				1						far fewer, most non-compliant & often cherry-picked
and are a more reliable gauge of change than satellites which indicate a much smaller rate of warming	158			1		1										Suraface thermometers are contaminated by UHI and cover oceans and remote areas poorly
In 2004, it was found that satellites were measuring a warming troposphere and a cooling stratosphere, and the meaningless average was leading researchers astray.	158					1					1					Satellite data was corrected for that in 1992. Still no warming. Correcting for orbital drift in 1998 gave 0.075°C/decade. Further corrections in 2005 gave 0.142°C/decade
temperature decline of 1940s & 70s caused by aerosols	159					1										compare this with the next statement
the amount of sunlight reaching Earth's surface has declined significantly over the last three decades	161	1											1			since poorly understood aerosols have increased since 1970s, his argument on 'scrubbers' clearing aerosols falls over
Hunter Valley lung cancer rates are 1/3 higher than in nearby Sydney	159				1						1					Stats for incidence of lung cancer in Hunter-New England are 86.7 per 100,000 people, compared to 86.4 per 100,000 in NSW
by the 1960s, lakes and forests were dying due to acid rain from SO2 emissions of coal-burning power stations	159-60				1	1										most northern forests were flourishing on increased CO2 when 'acid rain' was first mooted in the 1980s
prompted legislation to enforce the use of 'scrubbers' on coal-fired power plants	160										1					scrubbers were being introduced in the 1970s before the alarm about 'acid rain' in the 1980s
as the air cleared, temperatures resumed their upward creep	160												1			on page 161 he admits the air didn't clear - it got worse
Model predictions: the Poles & land will warm more rapidly, more rain, nights will warm more than days	160	1				1										True but UHI also warms the land, and nights more than days
Running GCM on 90,000 PCs gave an astonishing range of possibilities: +1.9 - 11.2°C	161	1					1									an astonishing 6-fold range of uncertainty!
CO_2 levels increased 100 ppm and Earth's temperature rose by 5°C.	161			1		1										Rather, the temperature rise caused the CO2 to rise!

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This suggests that CO_2 is a powerful influence on global temperature.	161							1			1				Is Tim that incredulous and ignorant?
Yet an increase in CO2 three times as large is predicted to result in a temperature rise of only 3°C	161										1				Tim also fails to understand logarithmic relationship
*this **anomaly** has serious implications for the survival of civilisation*	161		1								1				Tim's 'anomaly' is based on ignorance
If 100ppm of CO_2 really can raise surface temperature 5°C	162							1		1					Tim actually believes that!
and if aerosols and contrails have counterbalanced this so that we have experienced only 0.63°C of warming	162							1			1				i.e. 5°C - 0.63°C = 4.27°C of cooling from aerosols!
*their influence on climate must be **enormously powerful** . . only CO_2 is slightly more powerful*	162		1												Myhre (2009) showed that aerosols are **40% less powerful** than the IPCC thought
Earth's climate system so riddled with positive feedback that . . . lead to runnaway change.	163		1						1						Tim scarely mentions any negative loops. There is no evidence for past runnaway greenhouse
With all scenarios the Hadley Centre discovered that by 2050:	164							1							Flannery's figures based on **'high emissions'** (not all scenarios) and 2080 (not 2050)
1. human influences on climate will have surpassed all natural influences	164		1			1		1							Actual report states: "by the **2080s**,most changes in average climate we describe as due to human activities are likely to greatly exceed the
2. winter rainfall is expected to increase by up to 35 per cent	164								1					1	Report: "up to **30%** more precipitation"
*3. global rise of **just 2°C** would bring a temperature rise to all of Europe, Asia and the Americas of 4.5 degrees.*	164								1					1	the report said a rise of **3°C** would cause that effect
studies by scientists** from Stanford and the University of California **at Los Angeles														1	from the University of California, **Santa Cruz (not LA)**
Regarding 2 reports on climate impacts for California:	165			1		1									only 1 found: their models failed to match many observations
1. global warming would bring hotter summers and depleted snowpack	165				1		1								they found an increase in very hot days but said nothing about snowpack
2. threatening both water supplies and health	165						1								they said nothing about water supplies
3. heatwaves in Los Angeles would be 2-7 times as deadly	165				1										they said only: "these changes could have major impacts on human health."
Much of the CO_2 released just after WW1 is still warming our planet	167		1			1					1				how much?
In 2002 the surface temperature of the planet was 0.8°C above pre-industrial levels	167				1										Preindustial = LIA, 2008 was at least 0.5°C cooler than 2002 and 0.7°C cooler than 2007.
Scientists say a 70% reduction in CO_2 emissions is required	168			1											which scientists?
current GHG may trigger positive feedback loops and destabilise the carbon cycle	168										1				what does he mean by 'destabilise the carbon cycle'?
may cross threshold of climate change, beyond which lies extreme danger	168		1						1						pure alarmism
between 600 and 1200ppm would cause somewhere in the range of 2 to 9°C increase	169		1						1						based on linear relationship?
Good policy means a carbon tax of US$200/ tonne by 2050	169			1					1						based on model of Mastrandrea and Schneider
it is the rate not direction or overall scale of change that is important.	169		1		1										both can be important. There were wild fluctuations during the Younger Dryas
> 0.1C per decade increases the risk of significant ecosystem damage	169			1											Hare UN report

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at stake - the fate of hundreds of thousands of species, and probably billions of people.	170			1						1						
snows of Kilimanjaro & PNG can't survive current levels of CO2 for more than a couple of decades	172			1							1					No connection to CO2
we can calculate the time to extinction of most mountain-dwelling species	172						1									compare with next statement
Few studies of the impacts of climate change on specific mountain regions have been completed	174												1			so how can time to extinction be calculated?
our planet has not been warmer than it is now for millions of years	174			1	1						1					Eemian, Holocene max, Roman, MWP all warmer
increase in global surface temperature of around 5°C over 7000 years.	172	1				1										had nothing to do with CO2
We know that our planet must heat by 1.1 degrees this century	172			1			1									the future is certain, only the past is unpredictable
large homes, 4WDs & refusal to ratify Kyoto cost nation's natural jewels	177			1							1					Kyoto is destroying world's forests
from gorillas to pandas there is only one way to save them	177										1					a single cause and solution! Forget Dianne Fossey and forests
in PNG at around 1400 m. no one lives - because of malaria	177					1										main causes: steep slopes & low fertility
In the near future, global warming will grant access to the malaria paraasite & its vector to high mountain valleys	177				1					1						The reference is **to Africa, not PNG** where high vallleys are **8°C cooler** than at 1400m - AGW of 8°C in near future?!?
As our globe warms a degree or two, the % of humans exposed to malaria parasites will rise from 45 to 60%	288			1	1		1			1						Hare UN report - malaria a disease of poverty
Just 14,000 yrs ago deciduous forests now around Montreal were only in northern Florida	178					1										forests migrated even further north, then retreated to present position
The climate changes that prompted that migration, although far slower, were on a scale similar to those projected to occur this century	178-9												1			describing changes at end of last ice age - compare with next statement
massive 10°C drop in as little as a decade, rapid changes, see-sawing	193-5	1											1			when the Gulf Stream stopped & could do so again
how will species manage such long-distance movements?	179					1										people are spreading them too much!
temperatures in Australia may increase as much as 5°C in response to a global increase of 2°C	179					1										*By 2070 the SCIRO scenarios suggest warmings of 1-5°C (inland areas), 0-4°C (northern coastal), and 1-5°C (southern coastal)*
Tasmania's World Heritage forests dying due to drier, hotter conditions	179				1					1						unspecified news broadcast, climate change poses least threat
by 2050, 99 per cent of the succulent Karoo will have vanished	180				1		1									UN Hare Report. The Karoo thorn imported from South Aftica is a noxious weed in Qld
the fabulous fynbos will lose over half of its extent by 2050	180						1									These are "tough beauties that have learnt to thrive in nutrient poor soils, long dry summers, lots of wind and frequent fires."
In the modern world such movements are impossible	181									1						people are also developing new species and spreading them
at least one out of every five living things on this planet is committed to extinction by the existing level of GHG	183			1			1		1	1						extrapolation of study by Thomas et al which stated '18% of species sampled'
If we carry on business as usual, in all likelihood three out of every five species will not be with us by 2100.	183			1						1						Thomas stated: 'over 2°C, 1/3 of species will become extinct'. Bio-fuel production is now destroying forests and species
*The **oceans become acid** because its buffer, carbonate, is in limited supply*	186			1							1					the oceans are saturated in calcium and adding CO2 results in calcium carbonate precipitating out as sediment

Flannery Statements - mostly shortened		Important Facts	Extreme Dogmatic	Suspect Source	Half-truth	No uncertainty	Misrepresentatio	Misinterpretation	Exaggeration	Factual Error	Confusing / Silly	Contradictory	Failed Preditions	Mistakes	Allen Comments
carbonate is leached out of marine creature's shells back into the ocean	186		1						1	1					they don't dissolve, even if slightly acid, and some marine creatures actually increase shell production at high CO2 levels
scientists are detecting a warming of the oceans at depth,	188			1											No reference
***A 2003 report predicted:** 1. gradual warming until 2010*													1		there was no gradual warming from 2003 to 2010
2. a dramatic shift with abrupt change in world's climate													1		El Nino of 2010 was not as great as that in 1998
3. persistent drought over critical regions	190				1								1		which areas? Record rainfalls in many regions
4. a plunge in average temperatures of more than 3°C for Europe	190												1		Europe had a warm summer and an average winter
5. 2°C increases for Australia, South America and Africa.	190												1		South America had a very cold winter, E. Australia cool & wet
6. Scandinavia incapable of supporting their population	191												1		the predicted starvation and war never happened
7. border protection to keep out homeless Scandinavians	191												1		Scandinavians are trying to keep out refugees from Middle East
8. by 2010-20, water supplies and energy reserves strained in Australia	191												1		Now much better than in 2003 - dams full, vast suuplies of coal and gas
frozen north contains enough ice to stop the gulf stream	193				1							1			Maybe but it has to melt very fast
it will take millennia for all that ice to melt	150	1										1			That is far too slow
From 1970, freshening of surface waters of NE Atlantic recorded: salinity graph describes a downward arc	194				1					1					Increasing salinity since 1990
I'd say that by 2080 Greenland may be 4°C warmer than today, which would melt enough ice . . . to shut the current down for some centuries	195									1					Out on a limb and sure to be proved wrong - after he has long gone and been forgotten
Hadley Centre rates chance of disruption to Gulf Stream at 5% or less	195-6	1													Even Hadley Centre won't support Flannery's prediction
as soil warms decomposition accelerates & CO_2 is released in prodigious volume	196					1		1	1						The paper states: '*potentially large positive feedback coming from the release of carbon from soils as global temperatures increase. . . The uncertainty is large'*
plants of the Amazon effectively create their own rainfall	197				1										*only about half of it*
as CO2 levels increase, plants will keep their stomata closed longer	197	1			1										plants therefore lose less water
so transpiration will be reduced. so there will be less rain	197	1			1										so need less - no net difference in requirements
rainforest will collapse around 2040, complete this century	198		1			1									Amazon is being destroyed by slash & burn, partly for biofuels
Permian-Triassic extinction about 251 million years ago	47	1										1			compare with next statement
Permo-Triassic extinction (sic) . . . 245 million years ago	200									1				1	Permian-Triassic extinction was 251.2 ± 0.3 Ma
billions of tons of CO2 - so vast it led to an initial 6 ^{o} C rise	200		1							1	1				nonsense - volcanic ash → initial cooling [CO2 barely doubled]
triggered release of methane from the tundra and clathrates on sea floor	200			1						1	1				volcanic lava → release of methane from clathrates → 6°C
methane caused O2 to drop from 21% to 15% 260ma	201			1				1		1	1				this is 9m years before the volcanoes even began!
release of the clathrates is least likely to occur this century	201	1													so why even raise it?
in order to cool our homes, we end up cooking our planet	202		1		1				1						gives no practical suggestions for alternatives to AC
it'll be back to the stone age . . civilisation will go'- Lovelock	203		1						1						man left the stone age only after the ice age ended
solutions: deriving water from hydrogen power plants, towing icebergs	205										1				Flannery has some nutty friends and aquaintances

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the entire Earth will be affected by climate shifts and extreme weather events	206						1			1						thus saith the Lord!
other cities will join the list as water shortages increase around the world	206			1		1										failing to plan for increasing population is the cause, and climate change the exuse for not building dams
droughts & unusually hot summers caused world grain yields to fall	207										1					grain yields rose with 20thC global warming and continue to rise
whole forests of trees are already dying as a result of climate change	207				1	1				1						No reference given. No mention of increasing forests. Many forests disappearing for biofuel.
cities will likewise begin to die	207		1				1									prophet Flannery again
extreme cold or heat, water deprivation or flood	207											1				not quite sure which!
At highest end of scale (11°C of warming) impacts are unimaginable	208			1												and the bottom end of that model run (1.9°C) would be small
near-eternal dreary winter would descend on cities of Europe & USA	208									1						if Gulf Stream stops
Or perhaps extreme heat will destroy productivity of oceans and land	208-9			1								1				whichever is most frightening!
I think there is abundant evidence to support Lovelock's idea that climate change may well destroy our cities and end our civilisation	209		1							1						Civilisation arose during the Holocene Maximum and has flourished during subsequent warm periods
CC we are creating for 21stC similar to end of last ice age but 30x faster	209-10			1							1					the opposite is the case - it was over 30 times faster then
increasing levels of CO_2 will 'fertilise' the world's crop plants	207	1														studies show improved crop yields 28% to 35% in greenhouses - but Flannery now sets out to demolish this
Elizabeth Tansley and Stephen Long analysed the results	207														1	It was Elizabeth Ainsworth, not Tansley
rice showed an increased yield of only 6% from a doubling of CO_2 & wheat by 8%	207					1			1	1						In these studies, the average increase in CO2 was just 49%, not double (100%). Stated rice and wheat yields were based on very limited studies (the average wheat yield was +15%)
In future, crops will be stressed by higher temperature, more ozone at gound level & changes in soil moisture, all of which will decrease yields	207						1		1		2					Study showed CO2 actually minimised stress from ozone and hot dry conditions & the avearge crop yield increased by 17%
CO_2-rich world promises crop production lower than today	207			1							1					Only Flannery can turn a positive into a negative
SECTION 4 - PEOPLE IN GREENHOUSES																
*the **Montreal Protocol** (CFCs) is compared to the **Kyoto protocol (CO2),** arguing for a similar mechanism*	211-21					1							1			Over 20 differneces between Montreal and Kyoto Protocols
the most damning criticism of Kyoto is that it is a toothless tiger.	224					1										more significant toothlessness: no penalties, excludes biggest emitters and will achieve almost nothing
cuts of 70% by 2050 are required to keep CO_2 at double preindustrial level	224						1									very rubbery
these carbon credits, which do nothing to diminish climate change, are known as 'hot air'	225	1														agree, but why did Kyoto arbitratily set emissions at 1990 levels?
Australia has a budget of 8% greater than it emitted back then (108%)	225					1										an allowance of 8% means at least a 16% reduction on today's emissions, which have increased 28% since 1990
Australia's stock traders are missing out on an estimated $150 m/yr	227	1														That's the tragic truth - and whose pockets does that come out of?
Benefits of Kyoto/ETS: transparency & ease of administrat-ion, opportunities for new jobs & products it creates	229				1						1					from *EcoGeneration* *An ETS can be easily corrupted - anything but transparent*

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US could comply and still see domestic energy bills decline by $530 per household per annum	233			1						1					Impossible findings by a pressure group report predating Kyoto by six months.
the impact of Britain switching to renewables by 2050 would be to cut annual growth by only 0.1% pa	233			1											July 2004 News Report of the Chicago Climate Exchange (CCX), the dominant carbon trading exchange in the USA (since 2002)
William Nordhaus argues that emission decreases to meet first round of Kyoto targets will be modest	234			1	1										No refernce. William Nordhaus is scathing in his critique of Kyoto. The costs are not modest.
NCDC lists 17 weather events between 1998 & 2002 costing over $1 billion apiece:	235			1	1										The NCDC also inflated their temperature data for 20th century. Very few if any weather events are man-made.
droughts, floods, fires, hailstorms, tornadoes, heatwaves & hurricanes			1							1					Some of the worst hurricanes, floods and droughts in history occurred long before any anthropogenic warming.
this suggests that the costs of doing nothing are so large that the failure to calculate it bankrupts the argument.									1		1				His argument was bankrupt from the beginning
Since the 1970s, insurance losses have risen at an annual rate of around 10%		1			1										reasons include: increasing population, affluence, inflation, construction costs, increasing obsession with water views, 'sea change' & 'tree change'.
Swiss Re considering denying coverage to companies not doing enough	236										1				how the heck could they determine if a company was doing enough to reduce GHG?
Global warming' creates an illusion of a comfortable, warm future that is deeply appealing - essence of everything good	237											1			Tim does his best to make 'global warming' frightening, but 'climate change' is even more frightening - and convenient!
Children dredged from frozen ponds hours after slipping in have lived					1				1						perhpas up to an hour but not hours
because their bodies have evolved defences against freezing to death	238							1			1				because their brains cool faster than adults' and are thereby preserved from anoxia
SIDS has been attributed to the inadvertent overheating of babies	238		1					1		1					no evidence linking SIDS to overheating - over-rugging has more to do with re-breathing used air than with temperature
As early as 1977 the NY Times headline: Scientists Fear Heavy Use of Coal May Bring Adverse Shift in Climate	240				1						1				Shift which way? They were fearing another ice age in the early 1970s!
Palmer's views were the basis for a propaganda video 'The Greening of Planet Earth'	240		1												a British court found Al Gore's propaganda docudrama, An Inconvenient Truth, contained nine major scientific errors!
Cooney, an oil industry lobbyist, removed or adjusted descriptions of climate research that government scientists had approved	241				1		1								Climategate's government scientists: "These will be artificially adjusted to look closer to the real temperatures . . . Apply a VERY ARTIFICAL correction for decline."
Warwick Parer, Minister for Minerals and Energy, owned $2m coal shares	242											1			Tim Flannery has vested interests in Geodynamics which received a $90 million grant from the Rudd Government
the Australian-based Lavoisier Group, set up in April 2000	244													1	In March, not April
among the many outrageous claims: IPCC is an elaborate conspiracy	244						1			1					they do not state that, but many notable scientists do question its objectivity and validity
the Institute of Public Affairs (a right-wing think tank)	244				1										labelling
Fred Singer, a member of Sun Myung Moon's Unification Church.	244			1						1					ad hominem - guilt by association - and dead wrong!
Another decade of such profits may cost us the Earth	245		1						1						Only 4 years now until Armageddon becomes inevitable!
The IPCC's pronouncements do not represent mainstream science or even good science	245		1				1								IPCC not alarmist enough for Flannery

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If the IPCC says something, you had better believe it – and then allow for the likelihood that things are far worse than it says they are	246			1						1						The IPCC is far too tame for Tim
BP has moved 'beyond petroleum', making a 20% cut in CO_2 emissions	246					1										What about the Gulf oil spill in 2010?
Long before many were even aware of climate change, Mrs Thatcher was advocating a reduction in CO_2 emissions	247					1										Thatcher was also politically and economically motivated use this to break the stranglehold of the coal miners' union
each kg of carbon dug from the ground is an irretrievable step towards a hostile geological age in which civilisation will struggle to survive	248		1													no comment needed!
building them [CCS power plants] on a commercial scale will be expensive & take decades	253	1														I agree with Flannery on carbon capture and storage, BUT he then suggests it for burning biomass
burning biomass and sequestering the CO_2 generated [OK]	297			1									1			sequestration is too dangerous for coal but not for biomass!
these will have operating lifetimes in excess of sixty years	255									1						cf. only 35-40 years for standard coal-fired power stations
today the world is mostly deforested	256									1						only 1/3 of Earth's ice-free land & 10.5% of the tropics is used for agriculture
There is real hope for change here, for a vast range of initiatives, from organic market gardening to sustainable rangelands management, are beginning to be seen at the grass-roots level worldwide.	256					1										the greatest contribution to abating carbon emissions over the last half-century was the bioengineering of high-yield disease-resistant, drought-resistant, bug-resistant, herbicide-resistant crops; spraying weeds instead of tilling the soil; and the use of fertilisers – anathema to the purist *organic* movement.
combined cycle plants, which burn gas . . . are extremely efficient	260	1				1										so are CCPs that burn coal
consequences of using hydrogen are as bad as driving a standard car	262	1														the only advantage is that it keeps pollution out of cities - i.e at the power station
SECTION 5 - THE SOLUTION																
many examples where emissions have been slashed by over 70 % while experiencing strong economic growth	268			1	1					1						No reference for this statement about some British local councils
big coal & big oil's scare campaign that it's all too hard and expensive	268			1												What about Flannery's scare campaign?
Intermittent power: the most mature and economically competitive is wind	268			1												Not at all competitive with coal
wind doesn't always blow, which means that it is unreliable	269	1														wind turbines produce no power at all for much of the time
average turbine generates at only 28 per cent of capacity										1						The average is closer to 24% and Germany's is only 12.7%
in the UK nuclear power works at around 76%, gas 60% & coal 50%	269					1										They need extra capacity for peak loads and for when the wind dies and sun doesn't shine!
they are cheaper to maintain than coal-fired power plants						1										more subject to lightening strikes, less accessible and the blades need regualr cleaning
allegations that wind turbines kill birds, and are noisy and unsightly	269	1														They kill bats also
early wind towers had a latticework design, allowing birds to nest	270					1										studies show even the new smooth sided ones kill dozens of birds and bats per turbine pa
Cats kill far more birds in the US than do wind farms.	270											1				cigarettes kill more people than do coal-fired power stations

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you can have a conversation at the base of tower without having to raise voice					1										Wind farms can pose noise problems for up to 2km
in terms of alleged unsightliness, beauty is in the eye of the beholder					1										Real estate values plummet because not many share Tim's eyes
none of these issues should be allowed to decide the fate of our planet	270		1						1						end of argument!
Solar hot water . . . best way to make large easy savings in most household power bills					1										solar HW saves money only if heavily subsidised or power is very expensive
photovoltaic solar - maintenance free, panels carry 25yr guarantee, and last up to 40yrs	271				1				1						Photovoltaic panels need regular cleaning, glass cover has no guraantee, and output down to 80% at 25 yrs
France supplies nearly 80% of its power from nuclear sources while Sweden provides half & the UK a quarter	273	1			1										these countries have little or no coal
The power they generate is at present competitive with wind	273				1										only for wind with a very high capacity factor
RE Chernobyl nuclear meltdown in 1986:															
1. Only 1% of Belarus is free from contamination & 25% of its farmland has been put permanently out of production	274			1					1	1					**UN Report in 2005 found that:** outside the 30km exclusion zone radiation levels are now acceptable
2. nearly 1,000 children die each year from thyroid cancer	274								1	1					there had been only 4,000 cases and 9 deaths
3. 25% of the Belarus budget is spent on alleviating effects	274								1	1					such claims had been greatly exaggerated
Nuclear power provides 18% world's electricity, with ***no CO_2*** *emissions*	273				1				1						15% in 2005; >50,000 tonnes of CO2 produced in construction, mining, transporting, enriching and disposal of waste
world uranium reserves are not large	275								1						enough to last 140 years
New reactor types include . . pressurised water reactors	275									1					Three Mile Island generator that melted downin 1979 was a pressurised water reactor
one rock body in SA is estimated to contain enough heat to supply all of Australia's power needs for 75 years at a cost equivalent to that of brown coal. With trial power plants scheduled for construction in 2005, enormous potential of geothermal power is about to be tested.	277		1			1			1	1			1		Flannery has a vested interest in Geodynamics which optimistically estimates it could provide 24% of Australia's current use. After expending $300 million dollars over a decade, the output is zero & shareholders haven't made a cent
In the hydrogen & nuclear economies the production of power is likely to be centralised, which . . .	278											1			Flannery enthuses about geothermal power being even more centalised at Innaminka, SA
. . . would mean the survival of the big power corporations	278		1									1			isn't Geodynamics potentially such a big power coorporation?
people will generate most of their own power, transport and even water (by condensing it from the air).	278		1								1				romantic notion of self-sufficiency is more costly and inefficient
Brazil's vehicle fleet runs largely on ethanol from sugar cane	279				1										and the Amazon forest is being destroyed for biofuel
corn-derived ethanol in transportation provides little carbon savings	280	1													In 2006-07, US corn-based ethanol production grew by 30% pa and the price of US corn doubled
the crop would have to make up 20% of all productivity on land to power the world's cars, ships and aircraft	280		1						1						43% of all US crop land would be needed to supply just 10% of its automotive and diesel requirements by 2020
hybrid cars: a revolutionary new technology halves fuel consumption	280		1						1						hybrids use more fuel than claimed (13% more for Toyota Camry to 46% more for Suzuki Alto) & more than some diesels
the Prius cuts fuel use and CO_2 emissions by 70 per cent	280								1		1				70% of what? Honda Jazz is nearly as efficient & half the price

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Compressed air car (MiniCAT0 has a top speed around 120k/hr & can deliver ranges of around 300k at 50k/hr	281									1	1					Manufacturer claims 'a top speed of 110 kph & urban range of 180 km on compressed air alone'. It went only 7.2K on testing!
By combating climate change we can not only save the planet . . .	282		1									1				from what - his imagined apocalypse?
. . . but open the way for a very different future as well	282			1												return to inefficient self-sufficiency instead of specialisation?
using wind and solar, sea cargo may by 2050, again travel carbon-free	282											1				and pigs might fly!
In 1992 air travel was the source of 2 % of CO_2 emissions, the fastest growing source	282					1										it still contributes about 2% of CO2 emissions globally
Because most modern jets cruise near the troposphere	282											1				they cruise in the upper troposphere near the tropopause
The nitrous oxide emitted by aircraft . . .	282										1					the oxides of nitrogen emitted by aircraft are nitric oxide (NO) and nitrogen dioxide (NO_2), not nitrous oxide (N_2O)
contrails give rise to cirrus clouds - may have a significant impact on climate	283	1				1										cirrus clouds are probably warming and contrails cooling
If aircraft were to fly lower, cirrus cloud formation could be cut in half and CO_2 emissions could be ***lowered*** *by 4%*	283								1		1					they would use a lot more fuel and CO2 emission **increased** by 4%
contrails may be masking the impacts of warming caused by CO_2	283	1											1			Tim contradicts himself and admits contrails are cooling
Sometime this century the human influence on climate will overwhelm all natural factors	284			1			1			1						a statement of faith
the judiciary will be faced with apportioning guilt and responsibility	284			1												on what basis? - see comments on cerebral palsy
proof positive – as far as science can provide it – that the rain no longer falls because the richest and most powerful nations have been polluting atmosphere	285			1			1									Flannery prempts scientific findings. Scientists will be well paid to provide such 'proof'!
climate change could spawn a whole new industry of litigation	285					1										the lawyers and climate 'experts' are already celebrating!
It should not be too difficult to apportion blame for climate disasters as a result of the Global Climate Coalition's activities	285-6			1								1				Presumption of guilt- incredible!
Alaskan village Shishmaref is becoming uninhabitable due to increased temperatures	286					1										9,000 years ago, Arctic temperatures averaged 1.7°C warmer than now for two millennia
plans to relocate the whole town at a cost of over $100,000 per resident.	286					1										The Inuit have transitioned from nomadic lifestyle to fixed settlements very near the (already receding) shoreline
It seems inevitable that these [Pacific Island] nations will be destroyed by climate change during the course of this century	287			1												Sea level rise is not evenly distributed. Over a long period 86% of islands remained stable (43%) or increased in area (43%)
Australia is to blame for this				1							1					responsible for much less than 1mm of sea level rise to 2100
only ratifying nations have an internationally recognised right to pollute	289											1				Kyoto gives a legal right to pollute? What about nations not meeting targets?
a protracted Dark Ages far more mordant than any that has gone before	291			1						1						the Dark Ages were cold, not warm
Australia may find itself on the brink of collapse as a result of declining rainfall			1											1		only if we fail to plan - recent rains/floods put paid to predictions for Sydney and Brisbane

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As horrific as such an outcome is, if we delay action to combat the climate crisis, the [Orwellian] carbon dictatorship may become essential for our survival . . .	294			1								1				anything to alarm the reader
. . . will only be effective if we act now, before the crisis becomes full blown	295			1			1									don't think twice about it!
concerted action to rid atmospheric carbon emissions from their lives	296											1				have to stop breathing to do that
we could save around nine out of every ten species currently under threat			1				1									no evidence provided that climate change threatens 90% of endangered species
reduce, almost to zero, the possibility of any of the three great disasters				1						1						he doesn't specify what the 3 are but doesn't need to because reducing CO2 will prevent all disasters
act on climate change now: the delay of even a decade is far too much	297			1			1									like every good charlatan, give a dreadful diagnosis and prognosis before pushing the magic remedy NOW before it is too late - before the temperature drops
large energy corporations aggressively pushing for more coal-fired power plants . . .				1												the government itself was the largest until it sold it off to unsuspecting buyers now understandably upset and pushing
. . . even in NSW . . . which is suffering the worst drought on record	297			1								1				I suppose the drought is over because they stopped pushing!
If governments had forbidden further exploration for new coal reserves, and had purchased all existing stock,												1				enough known reserves for another 120 years, & what stock?
it might become a powerful tool for protecting ourselves from the onset of the ice age	298				1											Arthur C Clarke
ban the building or expansion of old-fashioned coal-fired power plants				1												what will that achieve while China commissions a new one every week?
make big energy users like smelters feel the full impact of price signals	298			1								1				drive them offshore, increasing emissions and costing jobs!
hitch ideological bandwagon to push for sustainability . . . the 'less is more' lobby, who believe that humans must reduce their overall consumption if sustainability is ever to be achieved	301	1											1			Tim joins them in repeatedly attacking 'large' corporations and pushing self-sufficieny and 'sustainable' organic farming
ask about a green power option - can cost as little as a dollar per week	303					1				1						10% green power costs that much. 100% green power adds $8/wk to the average houshold power bill
switching to green power, reduce your household emissions to zero	303									1	1					fossil fuels are used to manufacture and service renewable energy sources, for food, clothing & household items
I use hand tools rather than the electrical variety to make and fix things	304											1				does he seriously suggest builders do likewise?
Hybrid fuel vehicles are twice as fuel-efficient as a standard, similar car	305					1										some hybrids are twice as thirsty as similar sized diesels
if you can cut your emissions by 70%, so can the business you work for	305						1					1				welcome to Flannery's hell at work - dim lighting and no AC
not only is our global climate approaching a tipping point	306			1												Flannery keeps sharpening his dreaded 'tipping point'
If enough of us buy green power, solar panels, solar hot water systems and hybrid vehicles, the cost of these items will plummet	306						1				1					increased demand usually increases cost, especially if products (eg. HWS) are resource-rich, and 'green power' is in short supply, especially on a still night!

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soon the bulk of domestic power will be generated by renewable technologies										1				1		Governments are pulling back on subsidies and rebates - renewable power is too expensive. Homes use most power when the sun isn't shining or the wind blowing
Asia might avoid the carbon catastrophe in which we [are] deeply mired	306											1				What exactly is this catastrophe?
it will mean the difference between survival and destruction of our species	307		1				1					1				a species that inhabits the entire globe from fiery Death Valley to freezing Antarctica and has ventured even into outer space.
TOTAL		**51**	**14**	**103**	**51**	**85**	**48**	**7**	**26**	**78**	**70**	**43**	**31**	**11**	**10**	
Group Totals		**51**	**117**		**184**			**181**				**74**		**11**	**10**	
GRAND TOTAL OF PROBLEMS			**577**													

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