Appendix 3: Ergative Analysis of GLIMPSE in Parasol, Icy, and Heat

Parasol: GLIMPSE

Cl. no	MEDIUM	PROCESS	AGENT	BENEFIC/ RANGE	CIRCUMSTANCE
1.	enough sunlight and heat	is reflecting	a hazy umbrella of sulfur particles		LANGE back into space to offset global warming.
2.	You	might think		good news	The second secon
3.	that'	S			
4.		think			again

Icy: GLIMPSE

Cl. no	MEDIUM	PROCESS	AGENT	BENEFIC/ RANGE	CIRCUMSTANCE
1.	thicker ice	has brought	a warmer climate	The second of the second of the	in the past,
2.	if this	happened	749 C 4	A TOUR DESCRIPTION OF THE PROPERTY OF THE PROP	in a greenhouse world of the future
3.	sea levels	would fall			
4.	(sea levels)	not rise	TeMedia ayan daga		A Charles Control of the Control of the

Heat: GLIMPSE

Cl.	MEDIUM	PROCESS	AGENT	BENEFIC/	CIRCUMSTANCE
no				RANGE	
1.	the earth's climate	threaten	chemical wastes		
			spewed into the air		

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a saka da Tababan	and the second s			A section of the sect	na produce aproximation.	1000 Marie 1		-5
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BRIDGING: PARASOL 1

Cl.	MEDIUM	PROCESS	AGENT	BENEFICI/ RANGE	CIRCUMSTANCE
1.	Those colorless combinations of oxygen and sulfur []	have: Rel (Att)		a chemical affinity for water	
2.	free-floating moisture	pull: Mat	They		out of the air : Loc (spatial)
3.	it (free-floating moisture)	and condense: Mat		into droplets of liquid water and acid:	
4.	sulfates	are: Rel (Att)		the acid in acid rain.	
5.	a bunch of these droplets	Put: Mat			together: Acc (com)
6.	a cloud	get: Mat	and you		
7.	excess aerosols,	are: Rel (Exs)			So wherever : Loc (spatial)
8.	clouds	are: Rel (Att)		more numerous,	
9.	the planet.	further shading: Mat			
10.	the water droplets [making up the clouds,	will be: Rel (Att)		the smaller	
11.	the available water vapor	will be condensing: Matrial		-	around a larger number of particles: Loc (spatial)
12.	That	has: Rel (Att)		a cooling effect.	
13.	equal amounts of table salt and rock salt	"try putting: Mat			on a black tablecloth: Loc (spatial)
14.	you	'll see: Men		it,"	
15.	Charlson	says: Vb		·	
16.	"You	can see: Men		the table	through the rock salt : Loc (spatial)
17.	fewer particles []	are: Rel (Exs)			
18.	Everything else	held: Rel (Att)		constant	
19.	the cloud with more droplets	will be: Rel (Att)		brighter than one with fewer droplets	
20.		are not yet understood: Men			well enough [for Charlson or any other expert to make a good estimate of the scope of this indirect cooling effect,] (Manner; quality)
21.	but few in the field	doubt: Men			
22.	that it	's: Rel (Att)		large	

BRIDGING: PARASOL 2

Cl. no	MEDIUM	PROCESS	AGENT	BENEFICI/ RANGE	CIRCUMSTANCE
1.	Charlson	point out: Vb	and the second	TKV, deliku kaleet i	a garage and a gar
2.	a number of subtleties to the parasol effect []]	are: Rel (Exs)			
2.eb		[suggesting: Vb			
2.eb	global warming veering	are more likely to send:	aerosols,	nor jai	neste I & &
2.eb	The state of the s	preventing: Mat	See of Shield Same	a greenhouse world l	
3.		To understand: Men		1	why: Cause (reason)
4.	« he	says » : Vb	n ng angsik kalagaga ng mga angsignaga		
5.	you	have to take a closer look at: Beh	The second secon	the haze	
6.	A certain amount of aereosol haze	occurs: Mat	2018 12 M	amora a modern Japane and Japane	naturally: Manner (means)
7.	Twenty-two million tons of sulfur	are emitted: Mat	by minuscule, single-celled marine algae,		every year : Ext (temporal)
8.	its faintly musty smell.	giving: Mat	j jura.	the sea	DEAD TO THE THE THE TENT
9.	its share.	contributes:	The occasional volcano	an major an a da	
10.	But this natural background	isn't: Rel (Id)	to the factor of a car of the second state of	the cause of modern haze.	AND THE STREET, STREET
11.	industry	is to blame.:	Village spirit him to a	and the second s	For that: Cause (reason) squarely: Manner (quality)
12.	sulfur	has been busy adding: Mat	humanity		Over the past 150 years: Ext (temporal) to the natural background: Loc (spatial)
13.	the element out of the	gouging: Mat	A STATE OF THE STA	s i seministra la	
	earth in the form of coal, metal ores, and oil.	1 7 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		The second secon	trend Res
14.		being cooked: Mat	ricultus (
15.	with oxygen	links up: Rel	sulfur	er en skriver om general (* 1920) 19 september – Arthur Stand, skriver (* 1924) 19 september – Arthur Stand, skriver (* 1924)	
16,		and emerges: Rel (Id)	The second secon	as sulfur dioxide gas	from smokestacks : Loc (spatial)
17.	Charlson	estimates: Vb	The second section of the second section secti	in the contract of the second	en je sektorom po moto 1945. po osnosti 1844. posnosti netve skrijanje primjerovanje izastiki sa tovanje svoj Posnosti na posnosti na primjerovanje sa posnosti na posnosti na koja posnosti na koja se posnosti na posnosti
18.	some 90 million tons of sulfur	puts out: Mat	that, worldwide, industry		every year: Ext (temporal) -almost 500 million pounds Ext: (spatial) every single day: Ext (temporal)
19.		's like: Rel (Att)		having lots of volcanoes erupting 24 hours a day,"	
20.	he	says: Vb			
21.	many of the atoms of	recombine to form: Rel (Id)		trillions of tiny sulfate particles	
22.	this gas These particles	stay up: Rel			for no more than a few days: Ext (temporal)
23.	before they	(Att) fall back: Mat	[4] A. Sagarita and Angles of Physics and the Angles of the second of		to Earth: Loc (spatial)
24.	Only sulfates from the most powerful of volcanic eruptions	ever reach: Mat		ero pp Sub-Ball (Mark States and	the stratosphere, []]: Loc (spatial)
25.	Those produced by human beings	stay: Rel (Att)			in the lower atmosphere—below 36,000 feet at the middle latitudes,: Loc (spatial)

BRIDGING: PARASOL 2 (cont.)

26.	aerosols	can push: Mat	The gentler winds of this part of the atmosphere		only about 600 miles at most : Ext (spatial)
27.	before they	come back: Rel (Id)		often as acid rain	to Earth: Loc (spatial)
28.	So Seattle air, []	is: Rel (Id)		far less aerosol- laden than the stuff people are breathing in,	
28. eb		[blows in: Mat	which		after a 6,000-mile journey : Ext (spatial) over the industry-free Pacific] (: Loc (spatial))
29.	the aerosol concentration	is: Rel (Att)		so great	everywhere east of the Mississippi [that people [who grew up in that part of the country] don't even know what the sky is supposed to look like]. (: Loc (spatial))
30.	« he	says » : Vb			
31.	The sky [they know]	is: Rel (Att)		murky-	
32.	visibility	is: Rel (Att)		perhaps 20 miles, as opposed to the 100 miles or more	
33.	"When you	have: Rel (Att)	lots of photons []		
33.eb		[bouncing: Mat			around in a scatter: Manner (quality)
34.	the sky	goes: Rel (Att)		from blue to a whitish color,"	
35.	Charlson	says.: Vb	•		
36.	you	look up: Beh			"From the ground anywhere: Loc (spatial) on an otherwise sunny day: Loc (temporal)
37.	and the sky directly overhead	may be: Rel (Att)		blue or bluish,	
38.	it (sky)	'll be: Rel (Att)		whitish	but off at angles : Loc (spatial)
39.	That white sky [you see]	is: Rel (Att)		due to aerosol (Att: cir)	in the East : Loc (spatial)
40.	That	doesn't happen: Mat			very often : Ext (temporal) in Montana : Loc (spatial)

BRIDGING: PARASOL 3

Cl. no	MEDIUM	PROCESS	AGENT	BENEFICU RANGE	CIRCUMSTANCE
1.	The prototype	sits: Mat			on a bookshelf in his office.: Loc: spatial
2.		's: Rel (Att)		gunmetal gray, roughly the size and shape of a bazzooka.	3.3.4.1 3.3.4.1 3.4.4.
3.	aerosol-laden air	sucks: Mat	a tiny pump	100 m	Through an inlet on the bottom, Loc: spatial into a chamber. Loc: spatial
4.	a halogen movie- projector lamp.	is: Existential			On one side of the cylindrical chamber, about halfway down its length; Loc spatial
5.	an electric light detector— the technologically more sophisticated great- grandson, « 6. »	is: Existential			At one end of the chamber: Loc: spatial
6.	Charison	says: Vb			. that it is a conversion with
7.	() () () () () () () () () ()	by determining: Men			nd Advisorante lin economic for many many many many many many many many
8.	how much light	makes: Mat		it it	through an air sample; Extent: spatial to the light detector: Loc: spatial
9.	[how much light is being deflected by aerosols in the sample].	can measure; Mat	Charlson	esterwandi	accurately, Manner, quality (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
9.eb	how much light	is being deflected: Mat	by aerosols		in the sample : Loc: spatial
10.	the 'scattering efficiency,"	gives: Mat	It	you	Washing City
11.	Charlson	says: Vb	الا السناسية المراج عوالد		nto xx. for any construction of the constructi
12.	You	might think of: Men	and the second s	1.22	as the amount of a light beam [that a particle blocks out per gram of material].": Role
12.eb		blocks out: Mat	a particle	mark gerage & the filler	(2) (2) (3) (3) (4) (4) (4) (4) (4)
13.	a complete measure of optical scattering,	To get: Mat		3:00 List 3:44	" " " " " " " " " " " " " " " " " " "
14.	Charlson	explains: Vb	VARIATION (**)	a measurement	with a nephelometer; Manner; means
15.	"you	make: Mat		a measurement	simultaneously: Loc: temporal
16.	the air,	filter: Mat	you	The state of the s	out of it,: Loc: spatial
17.	the particles	do: Mat	Ais j	a chemical analysis of the material	(bl.) e a pathogai
19.	an amount of sulfate per cubic meter of air.	gives: Mat	That	you	***
20.	the ratio of the scattering to the concentration of material.	take: Mat	you		are 66.
21.	[what allows you to say that « given X	's: Rel (Identifying)	That	The state of the s	The state of the s
the transfer of the second	amount of sulfate in the air », there will be	raunia origina (18 maga at a propagat de la Agraca a se	and the first for the second state of	e constant de la cons	25 10 10 10 10 10 10 10 10 10 10 10 10 10
	Y amount of scattering]."				12th - Stronger 493 23 1 22 1
21.eb	you	allows to say:	The second secon	and and the second second second	A Commence of the Commence of
21.eb	X amount of sulfate in the air »,	given: Mat			A Brain
21.eb	Y amount of scattering	will be: Existential			

BRIDGING: PARASOL 4

Cl. no	MEDIUM	PROCESS	AGENT	BENEFICI/ RANGE	CIRCUMSTANCE
1.	Some of Charlson's findings about the parasol effect	suggest: Vb			
2.	that it	won't help: Mat			at all with some seroius aspects of the global warming problem :
3.	some warming effects	may even make: Rel (Att)	Sulfate aerosols	worse,	
4.	Charlson	says: Vb			
5.	The reasons	lie: Rel (Att)		in the fundamental difference between greenhouse gases	
6.	Because sulfates	have: Rel (Att)		such a limited range,	
7.	almost all man-made aerosols	are floating: Mat			above the Northern Hemisphere: Loc (spatial)
8	90 percent of industrial activity	is still concentrated: Rel (Att)			where : Loc (spatial)
9.	almost no such "protection" from man-made sulfates.	gets: Mat	the Southern Hemisphere		By contrast: Manner (com)
10.	"the amount of light [scattered by haze]	is: Rel (Att)		probably 10 to 100 times higher []	in the relatively clean air of Seattle
11.	Charlson	says: Vb			
12.	while the other	is protected by: Mat	an umbrella of pollution,		with one hemisphere bearing the full brunt of global warming: Acc (com)
13.	he	says: Vb			
14.	seas	still rise: Mat			uniformly: Manner (quality) all over the globe: Loc (spatial)
15.	as the warmer southern waters	expand: Mat		:	1
16.	the Maldives,	can't save: Mat	sulfates		In other words: Manner (com)
17.	But a rise in sea level,	might be: Rel (Att)		the biggest effect to worry about	
18.	« Charlson	says»: Vb			
19.	Much more important, «»	could be: Rel		the increased difference in temperature	
20.	« he	points out »: Vb			
21.	That	's likely to affect: Rel (Id)		the large-scale weather systems [on which people depend]	
22.	"More frequent occurrence of drought	is: Rel (Att)		a possibility"	
23.	Charlson	says.: Vb			
24.	"Or of violent storms				
25.	Or the opposite-less frequent storms				1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
26.	either chance	'd give: Mat	I		

27.	The thing [people need to understand]				that a slight regional shift in any direction is a big concern		JWW.		1	
28.			And the second s	more precipitation as rain and less as snow than normal		ess as than	Last year: Loc (spatial) in the mountains around Seattle: Loc (temporal)			
29.	And the snowpack	is: Rel (/		Same to the same		our reserve of		Activity and a	and the second configuration of the second s	f 1/2 i
30.	So just because the balance of snow to rain	changed	Mat		Jan Maria	en esta se il gordon	TuR	Selver Selver		1.14
31.	we	had: Rel	(Att)	The second secon		a drought	here."	aslir kraka	to local ments contained to	la la Cir
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BRIDGING: ICY 1

Cl.	MEDIUM	PROCESS	AGENT	BENEFICI/ RANGE	CIRCUMSTANCE
1.	Antarctica's ice	comes: Rel (Att)		from snow and frozen sea (Att: cir)	
2.	Snow []	becomes: Rel		ice	
2. eb		accumulating: Mat			inland: Loc (spatial)
3.		flows: Mat			slowly: Manner (quality) down towards the shores: Loc (spatial)
4.		ending: Rel (Att)		in the floating ice shelves [] (Att: cir)	
4. eb	the continent	fringe: Mat			
5.	ice volumes in the Antarctic	are: Rel (Att)		low	
6.	these shelves	retreat: Mat			towards the shoreline: Loc (spatial)
7.	a lot of ice,	is: Exs			
8.	the shelves	spread: Mat		<u> </u>	around the continent : Loc (spatial)
9.	more ice	flows: Mat			outward from the land: Loc (spatial)
10.	the sea floor close to the shore	touch: Mat	the shelves		
11.	they	float: Mat			further out: Loc (spatial)
12.	sediments on the sea floor at a position	begin to scrape away: Mat	they		
12.		known: Rel		as the grounding	
eb		(Id)		line	
13.	a complete sediment record	to collect: Mat			for a particular period of Earth history: Ext (temporal)
14.	a drill hole	has to be placed: Mat			beyond the grounding lines of the sheets []:Loc (spatial)
14. eb	that	were: Rel (Att)		active	then: Loc (temporal)
15.	three submarine troughs more than 500 metres deep,	chose: Mat	Domack's team		
16.		lying: Rel (Att)		between 30 and 130 kilometres offshore (Att: cir)	. :
17.	one site	was: Rel (Att)		near the Amery Ice Shelf (Att: cir)	*
18.	which	lies: Rel (Att)		in front of the Lambert Glacier,(Att: cir)	
19.	Each site	records: Vb		the same 10000- year story	
20.	mud and	have		1	For the past 4000 years: Ext (temporal)
	diatomaceous ooze	accumulated: Mat			in the troughs benearth an ocean free of solid ice: Loc (spatial)
21.	The ooze	is named after: Rel (Att)		diatoms the creatures []	
21. eb	[whose skeletons	form: Rel (Id)		the bulk of this sediment]	
22.	They	are: Rel (Att)		microscopic algae with silica shells	

BRIDGING: ICY 1 (cont.)

	countless numbers of them		t			turior d	aliana. Matana		p 200 metres of the oce	an : Loc
4.	no covering of ice	is: Exs		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			F		A the second of	() () () () () () () ()
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26.	these sediment types	are	i kiji i	40 0 3450	1, 17,	. Carlotte		Today:	Loc (temporal)	
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	All the second of the second o	Mat		The Sand of Sand				shelves	Loc (spatial)	
27.	The sediments	are mad		. 64 m. 10 1	70.5T	debris [[.	ILTT.	Lineary Sureman	great the translation of the state of the st	V\$ 1.50
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eb	and the same of th	(Id)			2.3.	Thomas (aprile) me one will	11 21 14 25 4 4 7 1	dre de la como de la c	lly:Loc (temporal)	
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BRIDGING: ICY 2

Cl.	MEDIUM	PROCESS	AGENT	BENEFICI/ RANGE	CIRCUMSTANCE
1.	the growth of ice	to follow: Mat		KANGE	worldwide: Loc (spatial)
2.	Miller and de Vernal	concentrated: Men		on one of the timest forms of life in the oceans	
3.	shells of calcium carbonate	grow: Mat	these creatures		
4.	the proportion of two isotopes of oxygen () in the carbonate	varies: Mat			
5.	the ice sheets	wax: Mat			
6.		and wane: Mat			
7.	The link	is: Rel (Att)		in the sea water	
8.	water	evaporates: Mat			from equatorial regions of the Earth: Loc (spatial)
9.	a higher level of the lighter isotope, oxygen-16,	is: Exs			in the vapour : Loc (spatial)
9. eb		was: Exs			in the original sea water: Loc (spatial)
10.	Some of this water vapour	is carried: Mat			to the poles: Loc (spatial)
11.	it	falls: Mat			where : Loc (spatial)
12.		forms: Rel (Att)		the polar ice	eventually: Loc (temporal)
13.	The ice	has: Rel (Att)		a higher proportion of oxygen-16 than the sea,	
14					
14.		forms: Rel			at any one time: Loc (temporal)
eb	·	(Att)			
15.					
16.	shells [];	grow: Mat	organisms []		In glacial periods: Loc (temporal)
16. eb	·	are: Rel (Att)	i	rich in the heavier isotope	
17.	this tell-tale sign	is fossilised: Mat			in sediment : Loc (spatial)
18.	they	die.: Mat			
19.	a record of the balance of oxygen isotopes through time,	give: Mat	The shells of the forams		
20.	which	is linked: Mat		to the volume of water []	
20. eb		locked away: Mat			in the ice sheets: Loc (spatial)

BRIDGING: ICY3

Cl. no	MEDIUM	PROCESS	AGENT	BENEFICI/ RANGE	CIRCUMSTANCE
	Similar signals	come: Rel (Att)	or that is the control of the contro		from the modern world: Loc (spatial)
		has warmed:	3 1 3 3 4 3 4 4 4		by 0.6°C: Manner (quality)
	The second secon	Mat	eran enganan ing pagabah		on average: Manner(quality) over the past century: Ext (temporal)
	short-term increases	have been:	1.4.10.38.30.8.3.3.3.3	Angelia daga galafisi a sa sa	over me past century. Ext (temporar)
• 1500	in the amount of snow at the poles:	Rel (Exs)	manda da d		
	snow lines in regions	are moving:	141030-43745 #CLL 30	APPL TIME	to lower altiitudes: Loc (spatial)
	such as Arctic	Mat	The second of the second secon		
1.00	Canada, Baffin Island and Alaska	political	landara zadatera.	the state of the s	
	The Greenland ice	is thickening:	0.3867	at a rate	The second secon
	sheet	Mat	in di	equivalent to a	Action is not been present put \$47 } .
4.000		1 Inc	1 115/2125	fall in sea level	77) i 7 met 2000 for Appropriate retire 1940
di , Salengeria	The second sections	1.4004.2	1 76 22 3 3 4 5	of about 0.45	
		J VA	Non Mark to	millimetres per	
1 y 10 dag 11	The first service of the service of	, No	a the section of the section	year.	
i.	ice	have	Some coastal		over the past 80 years: Ext (temporal)
		accumulated:	and interior sites	1	to the second of the second
		Mat	in Antarctica		
7.	e en ha franco e la post franco desarros de forança especíales e en	giving: Mat	LEGIST	a growth rate	l La
		il statement		equivalent to a fall in sea level	A CALL
and the second	to the control of the property of the property of the August 1999	· · · · · · · · · · · · · · · · · · ·	with the second	of 0.75	<i>.</i> ₩// 1
		l la		milimetres per	TO THE PERSON NAMED IN COLUMN
	wantah menghampa sa sampan sa	to partengene.	maring and market beauty for the	year	Allen management of the
i sa ja	But today's climate	is signalling: Vb	material production of the second of	the opposite effect, too -	The second secon
)	that the melting of ice	is	nangabuthan kalamatan kasamatan di nangabuthan Sangabuthan di	eliect, too –	
•	dist the meiting of ice	accelerating:	ALLE CONTRACTOR	* Of the distance of the second of the secon	manager framework and make the second
entaria. Period		Mat	and made the Private A.	or company of the state of	ment a least following with the
0.	glacers in most	are melting:	s landi (With the Conference of the Con	The first of the second
1	mountain Chains	are retreating:	ent payment were a provide the land	The rest of the second	rapidly: Manner (quality)
	the second of descriptions of	Mat	market of the first constitutions in	the sequeble or locally faire with	the control to the control of the co
1.	« that	began: Mat			a century ago »: Loc (temporal)
ь	W and	e e ma Para su su su caracteria de la companya de l	Contract of the Contract of th	- State of Sandy and the first of the sand	and the first the state of the
2.	some ice shelves on	are	St. (1886) Carrier of State Control of Contr	Listensky staku program i 1999 Listensky staku 1876 i 1990	
	the Antarctic	disintegrating	makadi menjada pada da salah sal	The first of the state of the same and the same of the	Park to make the
	Peninsula	: Mat	and the second of the second s	1 (Samo) in the confidence of the contraction of th	
3.	fears []	fuelling: Mat	The responsible constraints of the constraints of t	in the analogical	The second secon
4.	This confusing,	shows up: Rel	1400	in the geological record	
in plant	contradictory	(Id)	on the supplementation on a source.	- Tecoru	Call for the state of the state
	behaviour also	notes: Vb	The second secon	reconstitution of the same production	The control of the co
5.	Domack	receded: Mat	and the section of t		in the Hypsithermal period: Lo
6.	glaciers on the Antarctic Peninsula	and the second s		and the second residence in	(temporal)
eripagners:	and islands		arabanaja	Comb (Astronomora, Brigan Barbardan), religion (1945)	at the same time [] : Loc (temporal)
and the state of t	ally islands	and the second second	production was a first factories of	to the transmission of the second	The state of the section of the sect
6.eb	ice sheets	were growing: Mat	the second secon	and the second s	from the snouts of major ice-drainag streams: Loc (spatial)
	, y grandgarini sa giptik a istoropia u n ga a ta gasarina da kasarina da	are to be		these conflicting	
17.	The second section of the desirable section is	understood:	5220 L	signals	How: Manner (means)
MAG.	i in abdini	Men			The state of the s
,	The mass libel.	is: Rel (Id)	- page of a second of the analysis of the	that mild global	 A TOWNER SEA AND AND AND AND AND AND AND AND AND AN
8.	The most likely	Commence of the American Commence of the Comme		warming brings	
dien :	explanation		To Artist phonesis in the constant processing to	a net increase in	The state of the s
	and the second s	i de la companya de l	Triffic 1	the amount of	The state of the s
				snow at the	
		11-6.84		poles rather than	
Section 1	The state of the s	and the second second second second	and a series of the series of	a net melting.	
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				Land Ke	The state of the s

BRIDGING: ICY3 (cont.)

19.	more water	evaporates:	T		In a warmer world: Loc (temporal)
		Mat			from the oceans: Loc (spatial)
20.		to be transported: Mat			to the poles : Loc (spatial)
21.		to become: Rel (Id)		snow.	
22.	this	happens: Mat			
23.	the feedback processes []	cannot be: Rel (Att)		important enough [to override the effect of air circulation]	
23.eb	ice sheets	strave: Mat			
23.eb	the effect of air circulation	to override: Mat			
24.	The key factor in the growth of ice sheets	seems to be: Rel (Id)		conditions [that do not melt or remove snow, as exist today in the cold, dry climates of central Antarctica and norhthern	
				Canada].	
24.eb	<u>.</u> .	do not melt: Mat			.,
24.eb	snow	or remove:			
24.eb		exist: Mat			today: Loc (temporal) in the cold, dry climates of central Antarctica and northern Canada: Loc (spatial)
25.	Miller and de Vernal	found: Men			
26.	that a change to warmer, wetter winters alternating with cooler,	is: Rel (Att)		ideal for retaining snow	all year round: Ext (spatial)
27.	Domack and his colleagues	suggested: Vb			
28.	other climatic factros	may be: Rel (Exs)			
28.eb	the preservation of snow	affect: Mat			
29.	They	think: Men			
30.	that katabatic winds on ice sheets	may play: Rel (Id)		a part.	
31.	These winds	develop: Mat			
32.	air []	becomes: Rel (Att)		dense enough	
32.eb		to flow: Mat			on high ground: Loc (spatial)
32.eb 33.	they	descend: Mat			downhill: Loc (spatial)
34.	fallen snow	remove: Mat	they		recently: Loc (temporal)
35.	katabatic winds	reach: Rel (Att)		tremendous speeds,	In Antarctica: Loc (spatial)
36.		averaging: Rel (Att)		aprecia,	75 kilometers per hour: Manner (quality) at some places on the Antarctic plateau : Loc (spatial)
37.	the world	was: Rel (Att)		warmer	. Doe (spatra)
38.	the drop in temperature with height	reduced: Mat			
39.	the strength of katabatic winds	would diminish: Mat			
40.	more snow	would survive: Mat			

			3	

Cl. no	MEDIUM	PROCESS	AGENT	BENEFICI/ RANGE	CIRCUMSTANCE
1.	Atmospheric scientists	have long known: Men		The second secon	
2.	broad historical cycles of global warming and cooling:	are: Rel (Exs)	en en capa la monte de seguir a la compania de la compania del compania de la compania del compania de la compania de la compania de la compania de la compania del compania		
3.	most experts	believed: Men		Independent for	
4.	the earth surface	began warming: Mat			gradually: Manner (quality)
5.	the last ice age	peaked; Rel (Att)	and the second s	18,000 years ago (Att: cir)	and the second s
6	. it has been a see about a second.	has dawned: Mat	s to the administrative and the section of the sect		only recently: Loc (temporal)
7.	these climatic cycles	can be affected: Mat	by man		
8.	Stephen Schneider,	Says: Vb		Contract of the	The second secon
9.	the earth's surface	are altering: Mat	"Humans		The second second
10.	the atmosphere	changing: Mat			at such a rate [that we have become a competitor with natural forces [that maintain our climate]] (Manner: quality)
10.eb	We	have become: Rel (Att)		a competitor with natural forces [that maintain our climate 1].	50 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20
10.eb in eb	our climate]	maintain: Mat	a constitution of the second	the Mary State Continues of States and Applications of Physics on Sec.	
11.	[What is new]	is: Rel (Att)	the potential irreversibility of the changes []		
11.eb	What	is: Rel (Att)	Alba albada dareta.	- , 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
11.eb	Andrew State (1997) and the state of the sta	[are taking place : Mat	an de la companya de	gebalde halla d Grand diseal a filmatic Linear d	now: Loc; temporal)
		ety or any operation of a state of the con- cess of the contract of the con- tract of the			
	Table 1 To the Control of the Contro		ng ang kanggang ang ang ang ang ang ang ang ang		
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Cl. no	MEDIUM	PROCESS	AGENT	BENEFICI/ RANGE	CIRCUMSTANCE
1.	Potentially more damaging than ozone depletion, and far harder to control,	is: Rel (Id)	the greenhouse effect,		
2.		caused: Mat	by carbon dioxide (CO2)		
3.	The effect of CO ₂ in the atmosphere	is: Rel (Att)		comparable to the glass of a greenhouse:	
4.	the warming rays of the sun	lets in: Mat	it		
5.	excess heat	keeps from reradiating back: Mat			into space : Loc (spatial)
6.	a global warming trend [that could raise average temperature between 2°F and 8°F by the year 2050—or between five and ten times the rate of increase [that marked the end of the ice age]	may be hastening: Mat	man-made contributions to the greenhouse effect, mainly CO [that is generated by the burning of fossil fuels],		
6.eb		is generated: Mat	by the burning of fossil fuels		
6.eb	average temperature	could raise: Mat			between 2°F and 8°F by the year 2050— or between five and ten times the rate of increase [](Ext: spatial)
6.eb in eb	[the end of the ice age	marked] : Rel (Id)			
7.	the ecological face of North America."	revamped: Mat	that change		"completely: Manner (quality)
8.	Schneider,	notes: Vb			

Cl. no	MEDIUM	PROCESS	AGENT	BENEFICI/ RANGE	CIRCUMSTANCE
1.	the arena []	is: Rel (Id)		the atmosphere,	
1.eb	such projected climatic warming	will first be played out: Mat	The Control of State of the Control of		
1.eb	the earth	blankets: Mat	Desg (ADS)		
2.	it (the atmosphere)	is: Rel (Att)	A Committee of the comm	a remarkably thin membrane	
3.	the earth	were: Rel	a de la companya de Companya de la companya de la compa	the size of an orange	was a second of the second of
4.	the atmosphere	would be: Rel (Att)		only as thick as	
5.	the bottom layer of the peel, the troposphere	is: Rel (Id)		where all global weather takes place	
6.	it	extends: Rel (Att)		from the earth's surface (Att: cir)	20 Sept. 10
7.	air warmed by the earth's surface	rises: Mat	en de la partir de des	The state of the s	Andrew Company of the control of the property of the control of th
8.	colder air	rushes down: Mat	our st f	growth, Agraha Carlo Mala, 1 Carlo Mala (1970) of physics represent the conference of the	1995 Telephone Section 1995 Sec
9.	it (air)	to replace: Mat	an year of the second of the second second of the second o	and the control of th	The second se
10.	the troposphere	is churning: Mat	a partituda de proprio de la compansión de	and the second s	constantly: Manner (quality)
11.	a permanent air flow	streams: Mat	and the second second	or and the state of the state o	from the poles to the equator: Loc (spatial)
12.	prevailing winds []	generate: Mat	these swirling air masses «»		Andrew Control of the
12.eb	weather	drive: Mat		A property of the second of the second	across the hemisphere: Extent (spatial)
13.	weather	« distorted ;	by the rotation of the earth»	The second section of the section	across the nemsphere. Extent (spatial)
14.	the spread of	aid: Mat	Section of the sectio		in the troposphere: Loc (spatial)
15.	pollutants the stratosphere	extends: Rel (Att)		upward to about 3 miles: (Att: cir)	above this turmoil: Loc (spatial)
16.	rising air []	begin to turn: Rel (Att)	the contract of the contract o	warmer	in the lower stratosphere: Loc (spatial)
16.eb		has been growing: Rel (Att)		colder	at higher and higher altitudes: Loc (spatial)
17.	Ozone (O ₃)	is: Rel (Id)		a form of oxygen []	
17.eb		occurs: Mat	The second services are the large of the lar		rarely: Extent (temporal) naturally: Manner (quolity) in the cool reaches of the troposphere: Loc (spatial)
18.	It (Ozone (O ₃))	is created: Mat	And the state of t	A Company of the Comp	
19.	ordinary oxygen molecules	are bombarded:	with solar ultraviolet rays		usually: Ext (temporal) in the stratosphere: Loc (spatial)
20.	the oxygen molecule	shatters: Mat	this radiation	A STATE OF THE STA	化色霉素 医自己性神经 电影的 网络马斯马斯克
21.	some of the free oxygen atoms	recombine with O ₂ to form	The first of the second	(O ₃)	
22.	a property []	gives: Mat	the configuration	11-	
22.eb	two-atom oxygen	does not have: Rel (Att)	and the control of th	And the second of the second o	The second section of the second second section is the second section of the second section se

BRIDGING: HEAT 3 (cont.)

22.eb	ultraviolet light	can absorb: Mat	it (a property)		efficiently: Manner (quality)
23.	oxygen	protects: Mat	ozone		in doing so: Manner (means) at a lower latitude: Loc (spatial)
24.		being broken up: Mat			
25.	most of these harmful rays	keeps: Mat			
26.		penetrating: Mat			to the earth's surface: Loc (spatial)
27.	the ozone	heats up: Mat	the energy of the absorbed radiation		
28.	warm layers	creating: Mat			high in the stratosphere []: Loc (spatial)
28.eb		act: Mat		-	as a cap: Role on the turbulent troposphere below: Loc spatial
29.	ozone molecules	are being made: Mat			constantly: Manner (quality)
30.	they (ozone molecules)	can be destroyed	by any of a number of chemical processes		
31.	regular injections of nitrogen bearing compounds,	receives: Mat		the stratosphere	
32.		produced: Mat	by microbes		
33.	the gas	rides: Mat		the rising air currents	to the top of the troposphere: Loc (spatial)
34.		forced: Mat	by the tramendous upward push of tropical storms		higher: Loc (spatial)
35.	it (the gas)	enters: Mat			finally: Ext (temporal)
36.		perlocates: Mat			slowly: Manner (quality) into the stratosphere: Loc (spatial)
37.	nitrous oxide	tends to stay: Rel (Att)		there (Att: cir)	
38.	a recent National Academy of Sciences report	likened: Men		the upper atmosphere	
39.	it	leaves: Mat		the ground	as long as five years: Ext (temporal)
40.	N₂O	may reach: Rel (Att)		altitudes of 15 miles	
40.eb	it	is broken: Mat	by the same ultraviolet radiation		
40.eb in eb	ozone	creates: Mat			
41.		attack: Mat	the resulting fragments called radicals		
42.	more ozone molecules	destroy: Mat			
43.	another ozone killer	is: Rel (Att)		methane, []	
43.eb		produced: Mat	by microbes		in swamps : Loc (spatial)
44.	the process of ozone production and destruction	has been: Rel (Att)		more or less in equilibrium	for millenniums: Ext (temporal)
45.	a non-toxic inert gas	invented: Mat	a group of chemists		then in 1928: Loc (temporal)
45.eb		was used			as a coolant in refrigeratiors: Role
46.	similar compounds,	were using:	manufacturers		by the 1960s: Loc (temporal)

Cl.	MEDIUM	PROCESS	AGENT	BENEFICI	CIRCUMSTANCE
no	The first of the second of the			RANGE	
1.	CFCs	are: Rel (Att)		immune to destruction.	In the troposphere: Loc (spatial)
2.	they	break apart: Mat		And the second s	in the stratosphere: Loc (spatial) easily: Manner (quality) under the glare of ultraviolet light: Loc (spatial)
3.	100	an interpretation of the second	the result	Company of the second s	
4.	ozone	attack: Mat		- in the second product of the con-	and the second s
5.	chlorine monoxide (ClO) and O2	to form; Rel (Id)		6 probabilis	lencon sidente de la constanta
6.	The CIO	combines: Mat	and the second street of the second s	- man salari de la filia.	then: Loc (temporal) with a free oxygen atom: Acc (com)
7.		to form; Rel (Id)	Lancer page 1	O2 and a chlorine atom.	(c)
8.	The chain	repeats: Mat		itself.	then: Loc (temporal)
9.	"100,000 molecules of ozone	are removed: Mat		in the second se	"For every chlorine atom []," (Cause, reason) from the atmosphere: Loc (spatial)
9.eb		release: Mat	you		
10.	Rowland,	says: Vb	and the second		the first transfer of

Cl. no	MEDIUM	PROCESS	AGENT	BENEFICI Control RANGE	CIRCUMSTANCE 1 01
1.	nie niemanie i nacionalia politika politika projekty nacionalia politika politika politika politika politika p	did not mean: Rel (Id)	the existence of an ozone hole	And the second of the second o	necessarily: Manner (quality)
2.		were to blame:		CFCs	site of the
3.		were proposed: Vb		a number of alternative explanations	CONTRACTOR DE LA CONTRA
4.	the notion []"	was: Rel (Exs)	and the second second second second	the state of the second state of the second state of the second s	Among them: Loc (spatial)
5.	Dan Albritton,	says: Vb	The second second second	and the state of the second of the second se	the after the second of the se
6.	An interruption in the movement of air from the tropics, « », to the poles	could result: Rel (Att) (Sept. 1987) (Bet. 1987)		in less ozone reaching the Antarctic.	easily: Manner (quality)
7.	most ozone	is created: Mat	A CONTRACTOR OF THE CONTRACTOR	Programme of the control of the cont	The second of the second secon
8.	postenial in the beautiful	and the specific and appropriate	Another theory:	Company of the course of the same of the s	Colored the transference of the first consequence of the first consequence of the same for the first consequence of the same for the sa
9.	more ozone-destroying nitrogen radicals than usual,	created: Mat	the sunspot activity [that peaked around 1980]	TO Make The State of the State	perhaps: Manner (quality)
10.	A consideration of the constant of the constan	would be activated: Mat	by sunlight	The state of the s	each spring: Ext (temporal

Cl.	MEDIUM	PROCESS	AGENT	BENEFICI/	CIRCUMSTANCE
no	MEDION	INOCESS	AGENT	RANGE	CINCONDITION
1.	Scientists	are: Rel (Att)		sure	completely: Manner (quality)
2.	the hole	remains: Rel		centered on the	why: Cause (reason)
		(Att)		Antarctic	
3.	the depletion	is: Rel (Att)		so severe	why: Cause (reason)
4.	the peculiar nature of Antarctic weather.	may have to do with: Mat	It		
5.	the stratosphere over	is actually	by the strong		In winter: Loc (temporal)
	the region	sealed off:	winds []		from the rest of the world: Loc
		Mat			(spatial)
5. eb		[swirl: Mat	that		around it] Loc (spatial)
6.		forming: Rel (Id)		an all but impenetrable vortex.	
7.	Cicerone:	Says: Vb			
8.	[Looking down at	is: Rel (Att)		like [watching	
	the South Pole]	'		fluid draining in	
				a sink].	
8.eb		Looking: Men		at the South Pole	
8.eb		watching: Men			
8.eb	fluid	draining: Mat			in a sink; Loc; spatial
9.	It	's: Rel (Att)		like an isolated reactor tank.	Harris Control
10.	All kinds of mischief	can occur: Mat			
11.					
12.	Rowland	Explains: Vb			
13.	you	don't get: Rel (Att)		in the stratosphere	"Mostly: Manner (quality)
14.	most of the water	has been frozen out: Mat			
15.	the temperature	gets: Rel (Att)		low enough	
16.	the rest."	start freezing out: Mat	you		
17.		may prove to be: Rel (Id)	ice	a central cause of the ozone hole,	
18.	surfaces	provides: Mat	it		
18.eb	• .	[associated: Vb		with reactions in the atmosphere	only recently,]: Loc (temporal)
19.	molecules	bounce: Mat			In a gaseous state: Role around: Loc (spatial)
20.	one another.	hit: Mat	some		eventually: Loc (temporal)
21.	the reactions considerably.	speeds up: Mat	[adding a surface [for the molecules to collect on]]		
21.eb	a surface []	adding: Mat			
21.eb in eb	[for the molecules]	to collect: Mat			

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Cl. 10	MEDIUM	PROCESS	AGENT	BENEFICI/ RANGE	CIRCUI	MSTANCE MANAGEMENT	1 - 1
)		can be said	i kan sa kan sa	The same	for the o	reenhouse effect: Matter	V***
	it (to tell whether unusual global	is: Rel (Att)	Andrew Colored States and Colored	too soon	2 Carlos Marie	Sale Con Mary Land Sale Line Land	
	warming has indeed begun)				P/M		
	the greenhouse effect	is: Rel (Att)	and the same of th	a natural phenomenon	Unlike o	zone depletion: Manner (com)
6 2.4	Sangar and	The second secon	The market and the second of the conservation	with positive consequences	138 A	1115 015 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
14 s.	"the earth	would be: Rel (Att)	and the second of the second o	uninhabitable	A de la section de la constantion de la constant	it: Acc (com)	
	«Climate Modeler Jeff Kiehl,	points out »: Vb		The state of the s	dia dia	i de muse engles est	
order one and		is: Rel (Id)		[what keeps us from being an ice frozen planet like Mars.]"	Carolin	##1	
eb		keeps: Rel (Att)		01.016 1.66	Edit.	in dent	
	the sun's energy	did not trap: Mat	gases like CO2	and the first second section of the sect	A Companyage Andrew		
	the earth's mean temperature	would be: Rel (Att)		0°F,		han the current 59°. I	/lanner
			in Paris Arganization (1997)		1 (com)	t en	1
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	of the hardest blocker of balan.		Service Committee	A Property of the	t SIAN	The second secon	********
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	and the second of the second o		And the second of the second o	and the control of the second		and the second s	
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		and the second s				e de la companya de l	Section 1
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Cl.	MEDIUM	PROCESS	AGENT	BENEFICI/ RANGE	CIRCUMSTANCE
no l.	Such changes	may already be: Rel (Att)		under way	
2.	Climatologists	have noted: Men		an increase in mean global temperature of about 1°F	
3.					
4.	the greenhouse effect	is: Rel (Att)		on the rise	
5.	"climate	is: Rel (Att)		a complicated thing,	Hit is go seen as
6. 7.	«Roger Revelle, the changes seen so far	warns » : Vb may be: Rel (Att)		due to some other cause [] (Att: cir)	
7.eb	[we	don't yet understand]: Men			
8.	the theory	does not disprove: Mat	The absence of a clear-cut signal,		
9.	Scientists	expect: Men		any excess greenhouse warming to be masked for quite some time	by the enormous heat absorbing capacity of the world's oceans: Manner (means)
10.	which	have: Rel (Att)		more than 40 times the absorptive capacity of the entire atmosphere	
11.	ourselves to a climatic warming	ve committed: Mat	"we'		"Right now," : Loc (temporal)
12.	« V.Ramanathan,	declares » : Vb			
13.	we	haven't seen: Men		the effect	
14.	This extra heat, « », « »	should be released: Mat			over the next 30 to 50 years-: Ext (temporal)
15.		trapped: Mat	,		now: Loc (temporal) in the ocean: Loc (spatial)
16.	«he	says, »: Vb			
17.	it	counteracts: Mat	an event like a big volcanic eruption		
18.	Ramanathan:	Notes: Vb			
19.	it (to stop the heating that had already occured)	will be: Rel (Att)		too late	by the time: Loc (temporal)
19.eb	we	know: Men			
19.eb	our theory	is: Rel (Att)		соггест,	
20.	Schneider	sees: Men to wait: Mat			
20.eb	he:	Says: Vb		no need	
22.	"The greenhouse effect	is: Rel (Att)		no need the least controversial theory in atmospheric science."	
23.	"It	's like: Rel (Att)		a Rube Goldberg machine []	

BRIDGING: HEAT 8 (cont.)

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24.	One of the most fundamental elements of the Rube Goldberg machine	is: Rel (Id)		the three astronomical cycles []	or the second of
25.	The swings, « » its	occur: Rel	the state of the s	Agricol Commence	every 22,000, 41,000 and 100,000
7,500.00	tilt and the shape of	(Att)			years, respectively: Loc (temporal)
	its orbit around the			A service of the serv	the second secon
	sun.				The state of the s
26.	long-term variation in	involve: Mat	« which	1. 10.27	and the second s
	the wobbling of the	200	76910 VEX 12		22.45 Land Company of the Company of
The Property of	earth's axis, »			· ·	in at a manufacture of the state of the stat
27.	and the second	determine:	they 🧠	1.44	Together: Acc (com)
		Men			
28.	how much solar	receives: Mat			
	energy the earth			The state of the s	and the second s
29.	the earth's periodic	cause; Mat		The second strategies of the second s	Amel Salar
بو شيهادده	major ice ages every		delete (CIA	The second secon
	100,000 years or so,	1 a.r.	The state of the s	205	The second secon
	as well as shorter-		water to the	1 (21)	first school 1 of
4.4.4	term cold spells	u	reg y		
30.	Milankovitch cycles	scratch: Rel	} -\nk_2 \\ \begin{align*} \delta^2 \\ \n\ \n^2 \\ \delta^2 \\ \d	the surface of	la septembra sontenura la ta
2 1 2 2 2 2	only	(Att)		climate change	in summary continues in the
31.	veils of dust []	send up: Mat	Volcanoes, for	dealer Const	CONTRACTOR
			example,	may got the money part of market and	Constitution (1982)
31.eb	• • Consider Springer	reflect: Mat	14 15 1	sunlight	
31.eb	toko kilikular erek	act: Mat		and a second second	and the second of the second o
31.eb	the planet	to cool: Mat			- Participation of the commence of the second secon
32.	sunlight,	reflect; Mat	Deserts, with	P. Khadistal Charles helds	
J4.	Juniagas, 11111		their near white	All the second managements are all the second as	
			sands, also		and the second s
33.	No. 10 Constitution of the	as do: Mat	the polar ice		
	The state of the s	1 0 m	caps.		To "Learning" To
34.	Tropical rain forests,	have: Rel		the opposite	
J.,	however.	(Att)		effect:	
35.	solar radiation;	absorbs: Mat	their dark green		
JJ.	Sylui radiativil,	I MANUAL TO A TOTAL	foliage, like the		
Per ligae	The state of the s	and the second	dark blue of the		
1, 1	Contract and the	10.0	ocean,		Characterist 40
36.	the planet	tend to warm:	both	Note that the second second	
Ju.	and primited	Mat	Sant Self-contract of the Assessment	and glassing state of the state	In the Day of the Control of the Con
37.	Clouds, «»	are: Rel (Id)	State of the gast of the first	another	and the second for the first of the control of the second
37.	Ciouds, «»	are new (m)	The state of the s	important	· · · · · · · · · · · · · · · · · · ·
				climate factor	The state of the s
38.	about half the earth's	shade: Mat	« which	CHARGE ASSESSED	The second secon
	surface at any given				The second of the
and the second	time »				T. Alaman T. T.
39.	James Coakley	Says: Vb		J. J. P. N. 1848. 7 117	of the National Center for Atmospheric
3 7.	James Coakicy) Jay 3. 10	The state of the s		Research: Loc (spatial)
40.	the atmosphere	heat up: Mat	if you		Research: Loc (spanar)
		and pump:		and a safe for expectation of	
41.	more water	and pump. Mat			
43	The second of th				
42.	ciouds	will change.:			10. The state of t
42	Due how eleveds			San Safer and Safer	A series of the series of t
43.	But how clouds	(will change:			
4.4		Mat)	1 - 42 / 1 - 42 / 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
44.	We	don't know.:			
45	er menten er menten gerige begriff gehöre ja bilde av	Men	to the speak and other paragraphs are		The state of the s
45.	" Water vapor, for	is: Rel (ld)	Marin San San Marin Marin Marin	yet another	
4.5	examper,		44-	greenhouse gas,	Construction of the second of
46.	solar energy.	reflect: Mat	the white-grey	Mark a Mark State of the State	A CONTRACTOR OF THE PROPERTY OF THE PARTY OF
	The second s		surfaces of		The state of the s
			clouds	en in live areas	
	1	predominates:	in Josephia	Harry Barry	A grant from the first make a second of the
47.	Which effect				
and grants	Which effect	Mat			The state of the s
47. 48.	A CONTRACTOR OF THE PROPERTY OF	Mat	Valuation of the second		
est parti		Mat	months (22) Common open open open open open open open op		

BRIDGING: HEAT 8 (cont.)

	DOING. DEAL 8	· <u>`</u>	T	, <u>.</u>	
50.	60% of incoming solar rays.	reflect: Mat	The bright, low- level stratocumulus clouds		
51.	solar heat	let: Mat	long, thin monsoon clouds		
52.	infrared radiation	preventing; :Mat			
52.eb		escaping: Mat			
53.	Another contributor to climatic change	is: Rel (Id)		the biosphere	
54.	it	is: Rel (Identifying)		the biosphere [that thretens to tip the balance]]	
54.eb	[the balance	threatens to tip: Mat	that]		
55.	many of its effects	are: Rel (Att)		natural	
56.	and as such	have long been: Rel (Att)		part of the climatic equilibrium	
57.	enormous amounts of gas	produce: Mat	Termites, for example,	1	
58.	woody vegetation:	digest: Mat	as they		
59.	five liters of methane	can emit: Mat	a single termite mound		a minute: Ext (temporal)
60.	The methane	escapes: Mat			into the atmosphere: Loc (spatial)
61.	ozone	can destroy: Mat	it (methane)		
62.		act as: Rei (Id)		a greenhouse	
63.	"Termites," «»	"could be: Rel (Att)		responsible for as much as 50% of the total	
				atmospheric methane budget."	
64.	«Environmental Chemist Patlrick Zimmerman,	says » : Vb			of the National Center for Atmospheric Research: Loc (spatial)
65.	the biosphere	becomes: Rel (Att)		a problem only	
66.	when humans	get involved: Rel (Att)			
67.	the Amazon rain forest, « »	has been slashed: Mat			In Brazil: Loc (spatial) by an estimated 10% to 15%: Manner (com)
68.	«which	covered: Mat		3 million sq.mi., »	once: Loc (temporal)
69.	as the region	has been developed: Mat		for mining and agriculture;	
70.	an additional 20%	has been seriously disturbed.:			
71.	When the downed trees	are burned: Mat			
	1	or rot: Mat			<u> </u>
72.					
73.	CO2 and other greenhouse gases	are released: Mat			
			The same kind of deforestation in Africa,	warmer	