

Snow Babies

Shot Description	Timecode	Audio	Music
GV misty snowy scenic with fir trees	10:00:00:00		10:00:00 IN
CS snow flakes in the air Caption in 00:05 Out 00:09	10:00:04:02	00:02 Commentary To us, winter can appear magical. The way the snow transforms the	
CS snow covered slopes and trees with falling trees	10:00:07:02	landscape is little short of miraculous.	
CS arctic fox cubs tussling	10:00:10:22	But for the animals who have to live through it, winter is a	
GV polar bear cub rolling on ice	10:00:14:10	time of incredible challenges.	
CS group of snowy emperor penguin chicks	10:00:17:22	This is the story of a small group of baby animals,	
GV emperor penguins walking screen L to R in snow storm	10:00:20:17	facing some of the harshest conditions on the planet.	
GV polar bear cub sliding on ice	10:00:24:23	Polar bear cubs following their	
GV polar bear cub following mother across ice, slips and falls	10:00:27:18	mums to the ends of the earth.	
GV reindeer calf gambolling and playing	10:00:30:04	Reindeer calves trying to keep up with the herd.	
CS otter sliding down snow covered slope	10:00:34:20		
CS arctic fox cub leaping	10:00:37:09	00:36 Young otters and Arctic foxes learning to fend for themselves.	
CS emperor penguin chick waddling screen L to R	10:00:41:13	00:42 Penguin chicks racing to independence.	
CS snow monkey holding snowball	10:00:46:10	And baby snow monkeys who must find their place in the troop to survive.	
MS mother and cub polar bear on snowy slope	10:00:53:12	With the help of mums,	
CU male emperor penguins in snow fall	10:00:56:07	dads	
CS young and adult snow monkey tussling	10:00:58:03	and families they might just make it	
MCU reindeer calf to camera	10:01:01:00	through their first year.	
MS young snow monkey on adult's back	10:01:03:10		
GV huddle of emperor penguin chicks fade to black Title in 01:07 SNOW BABIES Out 01:13	10:01:06:17	01:07 These are the snow babies.	10:01:14 OUT
Fade up to satellite view of earth – Frozen Antarctica	10:01:15:12	01:19 Antarctica is the coldest place on	10:01:15 IN
WS snow blowing over Antarctic scenic with hills and ice	10:01:22:05	earth. In winter, there's little daylight and the temperature may fall to	

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WS snow blowing over ice plain, away from camera	10:01:28:06	minus eighty degrees centigrade.	
VWS colony of Emperor penguins	10:01:32:06	But for one remarkable animal, this is home. The Emperor penguin.	
CS emperor penguins in huddle moving round the outside	10:01:38		
MS rear view emperor penguins in huddle	10:01:45:22		
WS cold ragged rocks under sunrise in Antarctica	10:01:49:05	01:51 Winter fades.	
MS rear view emperor penguins in huddle	10:01:53:14		
Time lapse bright sun passes between rocks and illuminates ice formations	10:01:59:01		
MS rear view emperor penguins in huddle with one lifts its head	10:02:04:02		
Time lapse sun's shadows over ice cliffs	10:02:07:17		
Time lapse sun's shadows over ice hills	10:02:11:08		
CS emperor penguin chick revealed, sat on its fathers feet	10:02:16:05	02:14 Spring isn't the only new arrival. He may be tiny	10:02:15 OUT 10:02:17 IN
Side view CU male emperor penguin looking downwards	10:02:20:08	but he has a huge adventure ahead of him	
CS emperor penguin chick sat on his fathers feet	10:02:23:09	02:24 If he's to survive his first winter, he must learn to stand on his own two feet by then. 02:32 For the moment though, he relies completely on his parents.	
VCU male emperor penguin to camera	10:02:37:20	Or more precisely, his dad. This	
Side view emperor penguin chick sat on his fathers feet	10:02:41:20	little chap has never met his mum. Two months before he hatched, in the darkest days of winter, she set off to get fish for	10:02:44 OUT
Time lapse sun moving across horizon over frozen landscape	10:02:50:20	her and her unborn chick. But right now, it's eighty kilometres to the water's edge and she has a long journey home.	10:02:50 IN
VCU male emperor penguin	10:03:01:17	03:04 Dad has fed his son what he can and has little left to offer.	
CS emperor penguin chick sat on his fathers feet	10:03:11:05	03:11 He needs a proper meal and soon. 03:22 So does dad.	
VCU male emperor penguin to camera	10:03:23:07	He hasn't eaten for over a hundred days and weighs half what he used to.	

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CS emperor penguin chick sat on his fathers feet, fur goes over him	10:03:32:05	03:34 But he can't leave until mum comes back. All they can do is wait and hope that nothing has happened to her.	10:03:45 OUT
WS large ice mountains with moon, ice plains f/g	10:03:45:06		10:03:45 IN
WS ice covered cliffs b/g emperor penguins walking across plains f/g	10:03:49:20		
WS emperor penguins walking to camera over plains	10:03:55:03	03:53 At last, a sight for sore eyes.	
GV emperor penguins walking and sliding to camera over ice plain	10:03:59:21		
Backtrack female emperor penguins walking across ice	10:04:04:06	04:00 It's the mums, returning with fish and squid for chicks they've never even set eyes on.	
MCU emperor penguin males in group, calling	10:04:08:05	04:11 It's a warm welcome home.	10:04:09 OUT
MCU male emperor penguin necking	10:04:15:00		
CS emperor penguin chick sat on his fathers feet	10:04:19:01		
CS mass group of male emperor penguins f/g, as females approach b/g	10:04:24:04	04:20 But with twenty thousand penguins all calling out at once, how will the mums ever find their own families? Incredibly, even in the uproar,	
MS female emperor penguins moving through calling group of males	10:04:32:17	penguins can recognise the calls of their partners.	
MS female emperor penguin looks down	10:04:39:11	04:39 She's found them. Reunited at last.	10:04:39 IN
MCU emperor penguin chick sat on his fathers feet looking upwards	10:04:45:22		
CU pair of emperor penguins necking	10:04:49:17	04:47 After two months apart, the adults spend a tender moment together.	
CS pair of emperor penguins close together	10:04:54:03		
MCU emperor penguin chick sat on his fathers feet looking upwards	10:04:57:22		
MCU pair of emperor penguins look downwards towards chick	10:05:00:06		
CS emperor penguin chick sat on his fathers feet, ducks under fur	10:05:05:10	05:03 The chick has never seen his mum before and is a little shy.	
VCU female emperor	10:05:09:02	For mum it's love at	

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penguin looking downwards			
MS female emperor penguin nudging male	10:05:12:00	first sight.	
Pan down to emperor penguins shuffling together mother nudging father trying to get to the chick pan up to faces	10:05:22:04	05:23 After months of it being just the two of them, it's hard for dad to let go. 05:40 It takes a lot of gentle persuasion but he's finally ready.	
CS emperor penguin chick passed off father's feet on to mothers feet	10:05:48:15	05:50 The chick has only a thin down to keep him warm. Just two minutes on the ice would be enough to kill him. They have to move fast.	
MS lower part of pair of penguins with chick now on mother's feet, pan up to faces	10:06:03:07	Mission accomplished.	
MS emperor penguin chick feeding from mother	10:06:08:12	06:09 The young chick gets his first full meal. Mum gets time with her baby.	
Camera follows MS male emperor penguin waddling screen L to R and away past group	10:06:14:11	And dad can finally go fishing. Just eighty kilometres to go!	
WS emperor penguins waddling across ice plain, massive ice mountain b/g, fade to black	10:06:28:09		10:06:32 OUT
Fade up to satellite view of earth – Frozen Arctic	10:06:33:24	06:34 At the other end of the world, in the high Arctic, winter is equally harsh.	10:06:33 IN
WS snow blowing over ice covered plain and hills	10:06:42:03	06:43 It engulfs the world like a ghost.	
CU snow blowing screen L to R over ice	10:06:46:19	06:48 It whips the land without mercy.	
Time lapse sun's rays light up mountains	10:06:51:16	06:54 But again it doesn't last forever.	
VWS snow covered flat topped mountains and plains	10:07:00:17	07:02 Spring reveals new life.	
MS mother polar bear with cub at den entrance	10:07:05:06		10:07:05 OUT
GV polar bear mother at den entrance, comes out and shakes herself, walks off towards slope	10:07:16:22	07:12 This polar bear cub was born two months ago and has only just come out of her den beneath the snow. Mum has been feeding her on her rich fatty milk, but hasn't had anything to eat herself for almost eight months.	
CS polar bear cub emerging	10:07:29:09		

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from den			10:07:30 IN
CS polar bear mum on very steep slope	10:07:36:02		
GV polar bear cub moving across very steep slope, struggles to stay up	10:07:40:19	07:37 She needs to get them moving. Just as soon as she's sure baby can keep up. 07:54 If she's to make it through her first year, the cub will have to be continually on the move. It's the only way to survive in a place where food is hard to come by.	
CS polar bear mum sliding down mountain	10:08:05:12	08:06 Mum makes it look easy.	
GV polar bear cub cautiously going down slope	10:08:09:24	08:12 Baby's not so sure.	
Slo mo polar bear mum sliding down snow covered mountainside	10:08:17:07		
CS polar bear cub struggling to stay on mountainside looking nervous, polar bear mum comes back up to join cub	10:08:25:06	08:31 And needs some gentle reassurance.	
HA VWS snow covered mountains and plains	10:08:43:24	08:40 But if they're to catch any seals, they'll need to get into the sea-ice before it starts to melt.	
VLS polar bear mother and cub descending very steep mountainside	10:08:47:12	And the sooner, the better. They've got a lot of travelling to do.	
Aerial WS snow covered plains and mountains	10:08:53:16		10:08:56 OUT
Satellite view of earth – Frozen arctic ice melting around the edges	10:08:59:14	09:01 Further south, the snow is still thick on the ground.	10:08:59 IN
Aerial over snow covered landscape with trees	10:09:07:07		
WS snowy landscape under partial orange sky with grey clouds	10:09:13:06	09:09 The nights are still long and the temperature well below freezing.	
Time lapse grey clouds screen R to L with silhouetted trees on hills reveals moon	10:09:18:02		
VCU reindeer mother and calf	10:09:22:05	09:24 This shivering reindeer has only just been born.	
MS moon with grey clouds f/g	10:09:27:13	Yet she has only a	
CS reindeer calf standing	10:09:30:08	few hours to find her feet and join the rest	

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and wobbling as mother cleans her up		of the herd.	
CU wobbly reindeer calf	10:09:37:01		
CU wobbly reindeer calf	10:09:38:10		
CU wobbly reindeer calf, mother's legs exit screen R she follows	10:09:41:18		
Time lapse sun shine over landscape	10:09:45:14		
HA WS herd of reindeer on snow covered slope	10:09:49:04	09:46 The reindeer or caribou, are on the longest overland migration of any mammal, searching for tender new grass revealed by the melting snow.	
MS shadow of walking wolf screen L to R	10:09:57:06	But new-born calves are an easy target for hungry wolves.	
GV trotting pack of wolves over snowy ground with long shadows	10:10:01:17		
CS reindeer mother and calf trotting down snowy hillside	10:10:07:08	10:07 Shadowed as they go, these reindeer may walk more than four thousand kilometres in a year and the calves will have to keep up to survive.	
GV 2 reindeer calves chasing each other round adults on snowy slope	10:10:17:10	10:24 But even animals born to run must take a break some time.	
CS 2 reindeer calves chasing each other round adult on snowy slope	10:10:35:12		
CS 2 reindeer calves chasing each other round adult on snowy slope	10:10:40:18	10:38 When reindeer calves play, they aren't just having fun. They're getting fit and agile practicing the defensive moves they'll	
HA VWS reindeer group on snowy patch of ground on slope	10:10:46:05	need to survive. And not a moment too soon.	
Camera follows CS white tailed sea eagle in flight screen L to R	10:10:50:04	10:53 A white-tailed eagle has got them in its sights. These enormous birds can easily kill a young calf.	
VWS white tailed sea eagle flying in and hassles small group of reindeer	10:11:07:08	11:06 A small group of mums and calves have strayed away from the herd. 11:12 A miss.	
CS reindeer trot down snowy slope, exits screen R	10:11:16:16		
VWS white tailed sea eagle flying in and attacking reindeer calf	10:11:20:21	11:20 But the eagle isn't giving up. 11:25 A Strike, the eagle succeeds.	
CS reindeer calf trotting behind adult, exit screen R	10:11:31:20		

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CS white tailed sea eagle stood next to dead reindeer calf	10:11:38:01	11:34 It's a harsh lesson for the surviving calves. But they must stay with the herd.	
HA WS herd of reindeer on the move over snowy ground	10:11:41:20		
WS reindeer herd through rocks and snow screen L to R, melt water waterfall b/g	10:11:46:08	11:42 With one calf less, the herd continues north, chasing the melting snow.	
Aerial melt water flowing out of frozen snow covered mountain	10:11:51:16		10:11:54 OUT
GV arctic fox walking screen R to L over snow, sniffs ground, exits screen L	10:12:01:07	12:01 The thaw is also a busy time for adult Arctic foxes. Spring brings	
CU arctic foxes pop up behind rocks	10:12:08:03	new mouths to feed.	
CS 2 arctic foxes run screen R to L over snow chasing and playing	10:12:11:22		
CS leaping arctic fox cub, 2 nd through shot b/g	10:12:22:19	12:19 By the time winter comes around, these cubs must be all grown up and completely independent so they have a lot of learning	10:12:22 IN
GV arctic fox running and jumping from snow to grass play jumping with 2 nd cub	10:12:27:02	to do. And, as we all know, youngsters learn faster when it's fun.	
WS several arctic cubs bouncing around on snow	10:12:44:10	12:41 The cubs are still too young to hunt for themselves but they've seen their parents catching	
CS 3 arctic cubs bouncing around on snow and sniffing snow	10:12:46:21	rodents under the snow and are already honing their skills.	
GV arctic fox mother on rock	10:13:02:17	13:04 It's mum.	10:13:02 OUT
GV arctic fox cubs running over rocks	10:13:05:21		
Arctic fox cubs running and joining mother on grassy rocks	10:13:09:04	13:09 But she's come back without any food.	
CS cubs following mother and clamouring at her	10:13:12:20	13:14 It's still early in the year and there's little for her to catch.	10:13:12 IN
CS mother arctic fox goes down over rocks on to snow and across to grass	10:13:22:07	13:21 Mum isn't about to give up though she heads back out to try again. Until they can hunt and scavenge for themselves,	
CS arctic fox cub on rock	10:13:29:14	all the cubs can do is wait and hope.	
GV arctic fox mother looks to camera, then trots off oos screen L	10:13:34:09		10:13:39 OUT
Satellite view of earth – ice	10:13:40:07		10:13:40

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melting from Arctic area to leave lush green land		13:42 In the polar regions, winters are long and harsh and spring is slow to arrive.	IN
Aerial VWS Japanese mountains with snowy peaks and green hillsides	10:13:53:24		
Aerial along valley with river and snowy slopes	10:14:02:06	13:59 The same is true here in the mountains of Japan, where winter is a brutal affair.	
Time lapse blue sky over snowy mountain peak, tree branches f/g	10:14:08:20	14:08 There is little greenery and few plants to eat.	
Time lapse tree flowers blooming	10:14:13:24	14:14 But when spring finally comes, life returns quickly	
Time lapse steep slopes bushes and plants bursting into flower	10:14:19:19		
Slo mo WS river f/g partially snowy mountain b/g, snow monkeys trotting screen L to R	10:14:23:02	14:23 A troop of macaques make the most of the sunshine.	
Pull focus to MS snow monkey eating	10:14:29:22		
GV snow monkeys in trees	10:14:34:04	14:33 It's the perfect time to be welcoming a new addition to the family.	10:14:36 OUT
VCU snow monkey facing screen L then forward	10:14:38:01		10:14:42 IN
CU snow monkey baby huddled into mother	10:14:43:04		
VCU snow monkey	10:14:50:05	14:44 It's a baby boy. This tiny monkey will need all the warmth, protection and milk his devoted mum can offer.	
CU snow monkey baby looking up	10:14:53:17		
CU snow monkey nursing baby moves off screen L	10:15:06:23		10:15:09 OUT
MS snow monkey carrying baby on forest floor	10:15:14:24	15:10 Surrounded by greenery, it's hard to believe that Japanese macaques are also known as snow monkeys. Yet in	
MS snow monkey browsing on forest floor, baby beneath	10:15:18:04	only six months time, this baby monkey will be in a world of white. If he's to make it through his first	
MS baby snow monkey, mother b/g	10:15:25:24	winter, he too has a lot of learning to do. Not just about feeding himself but also about fitting in.	
CS snow monkeys perched on rocks bushes f/g	10:15:36:09	Snow monkey troops have a very strict pecking-order.	10:15:36 IN
VCU snow monkey with red face to camera	10:15:40:09		
		15:41	

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GV snow monkeys in family group down boulders	10:15:43:14	A queen-like female rules the roost.	
LA CS snow monkeys perched on rock ledge	10:15:47:14	15:46 Below her, a whole cast of class-conscious	
CS snow monkey male	10:15:49:19	males decides who gets into the gang.	
MS snow monkey backs away from male in screen R	10:15:53:03		
HA GV snow monkey chases downstream, one leaps into rapids to escape	10:15:55:19	15:56 And who doesn't.	
CS snow monkey drifting downstream leaps out onto rocky bank	10:16:02:01		10:16:03 OUT
MS snow monkey baby beside mother on forest floor	10:16:05:21	16:08 Probably best just to stick with mum.	10:16:06 IN 10:16:13 OUT
Aerial WS snowy plain	10:16:14:05	16:16 Polar bear cubs must also stay close to their mums.	
CU polar bear paws step over snow and ice	10:16:20:03		
LS polar bear and cub crossing ice sheet	10:16:24:04	16:24 It's the only way her cub is ever going to learn how to hunt.	
CS polar bear, cub canters through shot f/g L to R	10:16:30:00		
CU polar bear	10:16:34:06	16:31 Ringed seals make their dens in the sea-ice. But polar bears	10:16:34 IN
CS polar bear and cub hunting, polar bear leaps into snow mound	10:16:37:05	have the best sense of smell of any mammal.	
CU ringed seal in ice hole	10:16:41:23		
CU seal slips beneath water	10:16:42:22		
Underwater CU ringed seal dives downwards	10:16:44:01	16:43 Unfortunately for her, ringed seals flee at the first	
CS polar bear hunting buries head into snow	10:16:47:16	hint of danger.	
Underwater LA CU polar bear peering into ice hole to camera	10:16:49:16		
Underwater GV ringed seal swimming away along ice wall	10:16:52:07		
LS polar bear and cub hunting across ice sheet	10:16:56:12	16:55 Only two percent of polar bear hunts are successful, so Mum will just have to keep trying.	
CS polar bear cub digging in the snow	10:17:02:16	At least baby has seen how it's done though she might need a little more practice.	
MS polar bear digging pounces on the snow	10:17:11:09		

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CS polar bear cub alert rears up	10:17:18:20		
CS polar bear and cub	10:17:22:09	17:23 Mum's not giving up.	
MS polar bear cub to camera scampers through powder snow L to R	10:17:25:00	Seals make their dens in the ice so the rising temperatures mean that they will soon be	10:17:29 OUT
MS polar bear rolling in the snow, cub bounds in and out from screen L to play	10:17:30:02	gone. 17:36 Despite her growing hunger, Mum still makes time to play with her baby. But the clock is ticking.	10:17:44 IN
GV polar bear cub exits screen R	10:17:45:12		
LS polar bear and cub cross sea ice, sunset sky over coastal slopes b/g	10:17:53:10	17:46 As the sea-ice gradually melts, the seals will head out to sea. They have to keep moving, searching for their prey.	
CS polar bear at dusk looks over shoulder	10:18:04:00	18:00 The cub keeps up as best she can, but polar bears might walk as much 55 kilometres in a day	
CS polar bear cub holds up forepaw	10:18:07:07	and that's tough on a cub's tender little paws.	
CS polar bear exits screen R	10:18:15:22		
CS polar bear cub licking paw	10:18:20:04	18:21 The cub takes a rest to soothe them.	
LS polar bear away across sea ice through mist at twilight	10:18:29:23	18:30 But there's no time to waste.	10:18:30 OUT
MS polar bear off screen R	10:18:34:14		
VLS polar bear and cub crossing sea ice, snow capped coastal slopes b/g	10:18:36:08	18:36 It's time to get moving again.	
Satellite CU Earth Antarctica rotates	10:18:43:15	18:45 In the Antarctic, spring is slower to take hold.	10:18:43 IN
WS penguin colony in sunshine, ice cliffs b/g	10:18:50:09		
GV emperor penguin and chick at edge of colony	10:18:54:10	18:53 But the penguin chicks are growing fast. And no wonder. In four months time, this chick will be heading off to the open ocean.	
CU emperor penguin chick	10:19:04:03	In the meantime, there's some local exploring to do.	
CS emperor penguin and chick in colony, chick waddles off towards other penguins	10:19:08:16		
CS track emperor penguin	10:19:14:13		

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chick walking through colony R to L			
CS emperor penguin trotting R to L calling	10:19:19:06	19:16 As far as mum's concerned, a little independence is no bad thing. Still,	
GV emperor penguin tobogganing after waddling chick through colony	10:19:24:02	better follow him just in case.	
CS emperor penguin chick	10:19:29:06		
MCU emperor penguin walking	10:19:31:16		
CS emperor penguin urging chick by the scruff	10:19:35:04	19:34 At the first sign of mischief, he's dragged back by the scruff of the neck. 19:42 But this little chap has a will of his own.	
CU emperor penguin chick feet turn away	10:19:45:14		
CS emperor penguins and chicks	10:19:48:04		
MS emperor penguin chick	10:19:53:00		
CS emperor penguin chick waddling through colony R to L	10:19:55:19		
CU emperor penguin chick disappears behind adult bird f/g	10:19:59:14	19:59 In the beginning, it's brilliant. It's his first slice of freedom and it tastes great.	
CU emperor penguin chick pan up	10:20:08:11		
HA GV emperor penguins and chicks	10:20:16:18	20:15 The trouble is that he's in a colony of 80,000 penguins. Everyone looks pretty much the same.	10:20:16 OUT 10:20:16 IN
CU emperor penguin chick feet waddling	10:20:24:16		
CS emperor penguin chick comes to a standstill	10:20:27:13	20:28 The result is inevitable. He's completely lost.	
CU emperor penguin chick	10:20:40:09	20:42 It's the moment every toddler dreads.	
MS emperor penguin chick moving through colony turns away	10:20:56:24	20:59 All he wants is to find his mum.	
MS emperor penguin chick	10:21:02:09		
MS 2 emperor penguin chicks trying to huddle beneath adult, one chick stands up shakes head	10:21:06:07	21:06 But this mum belongs to someone else.	
CU emperor penguin chick	10:21:23:17	21:26 Oh dear!	
CU emperor penguin	10:21:27:22	Some of the other females	10:21:28 OUT

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CS 3 emperor penguins lying on their bellies	10:21:29:23	have lost their babies and their maternal	
CU emperor penguin	10:21:33:06	instincts are so overwhelming they'll steal any	
CU emperor penguin chick feet waddling L to R	10:21:36:23	stray baby they see.	10:21:36 IN
CS emperor penguin chick being pursued by adult birds	10:21:39:10	Suddenly, he's running for his life. 21:44 It's chaos and very frightening.	
CS emperor penguin chick being squashed beneath adult birds	10:21:52:09		
MS emperor penguin chick surrounded by adults	10:21:55:20		
CS emperor penguin chick tumbles over beneath overbearing adult birds	10:22:03:06		
MS emperor penguin chick huddled beneath adult bird shuffles forward	10:22:09:20	22:06 He's on his last legs when Mum comes to the rescue.	
CS emperor penguin and chick	10:22:16:02	22:19 The chick has learned his lesson about leaving his mother's side.	
CU emperor penguin chick dragged off between adult's legs R to L	10:22:22:17		
CS emperor penguin chick carried between adult bird's legs shuffled R to L pan up and down	10:22:31:05	22:29 Though he might have preferred a slightly more dignified exit	
WS emperor penguin colony, ice cliffs b/g	10:22:47:16		10:22:48 OUT
Aerial WS snow capped peaks and low lying cloud	10:22:52:12		10:22:52 IN
CU baby snow monkey foraging in grass	10:22:58:01	22:54 In the mountains of Japan, baby snow monkeys are still busy trying to find their place in the pecking order.	
GV snow monkey babies scamper together along branch	10:23:07:20	23:04 Being the youngest in the troop can be tough when all the older kids have already worked out who their	10:23:04 OUT
CS 3 snow monkey babies on branch, one exits screen R	10:23:10:00	mates are.	
CU snow monkey baby	10:23:16:02	23:16 But if this monkey doesn't make friends, he could be in real trouble when winter comes round.	
CU snow monkey baby	10:23:23:01	An older baby comes over to investigate.	10:23:24 IN

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CU snow monkey baby, second monkey baby in screen L playing and grooming	10:23:26:24	23:32 And a friendship begins.	
MS snow monkey babies surround youngest baby	10:23:47:18	23:46 Soon, everyone wants to say hi. It's official He's part of the gang.	
CU snow monkey feeding on leaves	10:23:56:04		
LS snow monkeys in trees down cliff	10:23:59:08		10:24:00 OUT
GV pan up geyser thermal cloud	10:24:03:09	24:06 Yellowstone, In the Rocky mountains of North America.	10:24:04 IN
Aerial GV geothermal springs in the snow clouds of steam drift over snow blanketed trees	10:24:11:04		
Aerial WS pan around geothermal forest valley in the snow	10:24:15:05	24:12 In winter, this volcanic area is thick with snow and temperatures can easily reach 40 degrees below zero. As	
WS weak sunlight through mist, forest trees silhouette horizon	10:24:22:01	winter ends, the white melts away.	
Aerial WS track over Rocky Mountain peaks to plain	10:24:26:18	And the green takes over.	
GV lake, forest trees b/g	10:24:31:18	It's late spring, and a family of otters emerge from their holt for the very first time.	10:24:35 OUT
CU otter drags pup from holt, 2 nd pup emerges	10:24:36:14	24:39 Being born later in the year, means that the pups avoid the worst of the cold weather. It's a great strategy for keeping the new-borns from freezing, but it means they have less time to pile on the fat	
Slo mo MS otter in shallows shakes head and dives	10:24:52:08	before their first winter comes around. They've timed it perfectly.	
MS 2 otter pups dive off trees stump into river	10:24:57:06		
Underwater CU trout migrate R to L	10:24:59:01	24:59 Around here, otters	
MS otter and 2 cubs at surface dive	10:25:00:11	survive mainly on a diet of fish. And the local trout have just arrived to	
Underwater CU trout through shot R to L	10:25:05:15	lay their eggs.	
CU otter and 2 pups at surface	10:25:06:15	The pups must learn	
GV otter and 2 pups hunting	10:25:08:24	how to hunt, of course. But on the first day of	
CU otter and thrashing fish at surface	10:25:11:23	school, maybe	
CU otter leaps and splashes R to L	10:25:13:04	just a demonstration will do.	

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CU 2 otter cubs calling on stream's edge	10:25:16:02		
Slo mo MS otter catching fish tumbles and thrashes	10:25:17:15		
GV otter catching fish rolls and carries fish to 2 pups waiting on bank	10:25:21:07	25:28 Their mum is an excellent teacher	
GV otter leaps onto driftwood log with struggling fish followed by 2 pups	10:25:32:01		
MS 2 otter pups on log	10:25:39:03	25:36 The fish are full of tiny eggs, perfect for little mouths.	
CU otter pup eating trout roe off log	10:25:42:18	As long as the food keeps coming, they should be in good shape	
MS otter pup licking trout roe off log	10:25:46:07	for winter.	
CU otter eating fish, pup on its back	10:25:48:23		
GV polar bear crosses sea ice between bergs through heat haze and mirage	10:25:52:00	25:55 Back in the realm of the polar bears the arctic sea ice now shimmers with late spring heat haze.	10:25:52 IN
GV polar bear cub	10:26:01:23		
GV polar bear crosses L to R through mirage	10:26:11:24	26:04 This mother and her cub have had a good couple of months' hunting seals on the frozen sea, the problem is the surface of the ice is beginning to melt.	
GV bright sunlight in blue sky	10:26:20:16		
GV polar bear skids across ice L to R	10:26:23:22	26:25 Polar bear cubs have tiny bristles on their paws that help to stop them slipping.	
GV polar bear following mother bear cub slips and scampers across ice L to R	10:26:30:12	But it's no match for the melting ice.	
CS polar bear	10:26:43:00	26:37 Beneath the ice, the seal pups are growing up and heading out to the open ocean and catching them is proving increasingly difficult.	
GV polar bear cub scampering L to R	10:26:47:01	The bears follow the seals out to sea, on thinner and thinner ice	
HA LS polar bear away across sea ice	10:26:54:19	knowing that this might be their last chance of a meal for many months to come.	10:27:00 OUT
HA WS emperor penguin colony, ice cliffs b/g	10:27:04:03	27:06 In Antarctica, it stays colder for longer.	
CS 2 emperor penguin chicks	10:27:10:06		10:27:10 IN
CU emperor penguin chick, off screen R	10:27:17:23	27:17 Unlike the polar bear cub, this penguin chick doesn't have to travel to get his	

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		food. Mum and dad do all the work.	
CU pan up emperor penguin chick, 2 nd chick b/g	10:27:26:18	He's now old enough to be left alone while his parents go fishing. Plus, he's made a lot of friends.	
MS 2 emperor penguin chicks	10:27:33:01		
MS 4 emperor penguin chicks	10:27:36:23	And he and his mates look out for each other... most of the time.	
MS 2 emperor penguin chicks fight pecking and wing flapping	10:27:43:20	27:45 There's the odd disagreement of course. Though it's usually quickly forgotten.	
GV emperor penguins migrating towards edge of colony to camera	10:27:53:16		
MS emperor penguin feeding chick	10:27:57:06		
CU emperor penguins waddle through colony	10:28:03:18	27:59 Mum and dad are now both working full-time just to keep their baby fed.	
MS emperor penguins waddle away	10:28:08:22	28:06 Even with the ice melting and the sea getting closer, it's still a 2 week round trip to catch food.	
GV 2 emperor penguins trudging away, colony b/g	10:28:14:03	28:16 The adults have no choice. Their chicks have some serious growing to do, if they're to leave home before next winter.	
GV emperor penguins migrating to camera, one tobogganing R	10:28:25:12		10:28:28 OUT 10:28:28 IN
WS emperor penguins migrating ice cliffs b/g	10:28:29:01		
CS emperor penguin chicks on edge of colony in the snow	10:28:32:16	28:30 But, even in summer, the weather can turn in an instant.	
WS frozen bay, blizzard blowing L to R	10:28:36:20		
MS emperor penguin chicks huddled together in blizzard	10:28:40:17	28:37 In an Antarctic blizzard, temperatures can quickly fall to minus 55 degrees centigrade. The chicks' only	
CU emperor penguin chicks huddled in the wind and snow	10:28:45:24	chance of survival is to huddle together for warmth. The cold, though,	
GV emperor penguin chicks huddled in blizzard	10:28:52:12	is only part of the problem. They've lost the rest of the colony. 29:03 They have two choices. They can stay together and hope that they are found.	
CU emperor penguin chicks in blizzard	10:29:08:16	29:09 Or they can break the huddle, search for the remaining adults and risk freezing to	

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		death.	
CU emperor penguin chicks in blizzard	10:29:16:22	Young and	
CS emperor penguin chicks in blizzard huddle separates and run to camera	10:29:19:01	afraid they decide to risk it. 29:25 They could be heading in completely the wrong direction.	
GV emperor penguin chicks scurry past camera in through blizzard	10:29:29:02		
MS emperor penguin chicks in blizzard off screen L	10:29:45:03		
CU emperor penguin chick reunited with adult in blizzard	10:29:50:05		
MS emperor penguin chick in blizzard	10:29:54:23	29:54 In the end luck is on their side. Even at the height of the blizzard,	
CS emperor penguin chicks past migrating adult bird R to L through blizzard	10:30:00:06	there's still a column of adults bringing fish	
MS emperor penguin chicks trot past adult R to L through blizzard	10:30:03:01	back from the sea. The chicks are led home like a party of lost	
CS emperor penguin chicks and adult birds moving through blizzard R to L	10:30:07:24	schoolchildren.	
GV emperor penguins and chicks migrate through blizzard R to L	10:30:17:02		
GV emperor penguin colony huddled in blizzard	10:30:32:04		10:30:32 OUT 10:30:35 IN
MS emperor penguin chicks surrounded by adults in blizzard	10:30:36:15	30:37 Back with the colony, they form a crèche once more.	
CU emperor penguin chick	10:30:41:18	30:44 But nothing beats snuggling up to mum.	
CU emperor penguin chick flaps wings and huddles up to adult bird	10:30:46:15	30:52 Hanging out with your mates is all very well but mums are definitely better.	
CU emperor penguin	10:30:59:17		10:30:59 OUT
WS emperor penguin colony	10:31:05:17		
Time-lapse GV bright sunlight crossing clear sky L to R, snow melt drip f/g	10:31:10:19		10:31:10 IN
WS reindeer migration around lake shore	10:31:17:13	31:14 In the Arctic there's little snow left, as over 75,000 reindeer soldier on, covering up to 50 kilometres a day.	
Aerial HA GV reindeer in migrating around lake shore pan around	10:31:27:15		
Aerial HA WS reindeer	10:31:33:18		

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migration around lake shore			
Aerial OH GV reindeer in migration	10:31:41:11		
Aerial VWS reindeer migration along lake shore	10:31:46:04		
Aerial GV reindeer in migration down bank into lake single file	10:31:52:03		
GV reindeer in migration swim L to R	10:31:57:24		
Aerial HA GV reindeer in migration wade through shallows L to R	10:32:02:03		
MS reindeer calf follows mother reindeer up bank shaking off water	10:32:06:02		
Pull focus pink saxifrage and water flow	10:32:13:17	32:13 This is boom time for the reindeer.	10:32:13 OUT
CU reindeer calf foraging through bushes and pink saxifrage	10:32:17:10	The little calves are feeding for themselves now. Though they'll still drink mum's milk when they get a chance.	
CS white and yellow flowers	10:32:26:15		
CU reindeer grazing over white and yellow flowers	10:32:29:06	32:29 With coats designed for the cold, overheating can	
GV reindeer resting on ice patch	10:32:32:03	be a problem for the reindeer. True Arctic animals, they seek	
GV reindeer group resting chew cud on snow patch	10:32:36:23	out the last patches of snow to keep cool. And then they're	
GV reindeer on snow patch stand up and move off to screen R	10:32:41:12	off once more, always in search of new pastures.	10:32:44 IN
Slo mo GV wolf trotting to camera	10:32:46:02	32:47 But danger is never far away. The wolves have decided to strike.	
Slo mo CU reindeer herd stampede L to R	10:32:55:24		10:32:55 OUT
GV wolf hunting reindeer pan up calf separated top screen	10:33:00:03	33:00 Their strategy is fear.	
Slo mo CU reindeer herd stampede	10:33:07:10	33:03 Panic the reindeer and the calves will fall behind or get separated from the herd.	10:33:08 IN
VCU reindeer eye	10:33:09:04	In the chaos,	
Slo mo MS reindeer calf calling, reindeer stampede through shot f/g	10:33:11:16	anxious mums call desperately	
CU reindeer calf	10:33:13:05	for their babies.	
GV 2 wolves hunting bring down reindeer calf	10:33:15:13		
VCU reindeer panting	10:33:18:23		10:33:19 OUT
CS reindeer calf trotting to camera	10:33:22:02		10:33:22 IN
		33:23	

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MS reindeer calf to camera calling	10:33:26:11	Most of the calves are lucky. This one was separated but survived. Now she just needs to find mum.	
GV reindeer in migration walk R to L	10:33:33:06		
VCU reindeer calf trots off to screen L	10:33:37:07	33:34 But while there may be safety in numbers it's also easier to get lost.	10:33:34 OUT 10:33:39 IN
CS track reindeer trotting comes to a standstill	10:33:42:05		
CS reindeer calf reunited with mother suckles	10:33:46:02	33:50 Found at last.	
CU reindeer calf suckling	10:33:52:19	And desperate for Mum's reassurance.	10:33:52 OUT
GV 2 wolves	10:33:56:20	Others may not have been so fortunate.	
MS reindeer and calf	10:34:00:09	But at least this little one is safe	
GV reindeer herd in migration to camera across tundra plain	10:34:02:23	and back with the herd.	
Time-lapse WS track arctic sun's path rising and dipping over horizon R to L	10:34:09:06	34:10 At the peak of Arctic summer, the sun never sets.	10:34:09 IN
Time-lapse WS sun skims across low hills horizon L to R	10:34:23:00	34:25 This constant warmth and energy triggers an incredible burst of life.	
GV sea birds flocking L to R	10:34:29:20		
WS sea birds flocking and swimming at surface	10:34:34:05	34:31 Millions of seabirds flock to the cold rich seas now freed from ice.	
CU humpback whale feeding dives at surface through flocking and swimming seabirds	10:34:39:08	Humpback whales arrive for a spectacular feast of shrimp-like krill.	
CU humpback whale spouts surrounded by seabirds	10:34:44:14		
MS humpback whale dives raising tail fluke surrounded by flocking seabirds	10:34:49:01		
WS seabirds hunting flock and dive fill screen	10:34:52:22		
Time -lapse WS sunset and shifting clouds across bay with reflections	10:34:58:06		
GV arctic fox carries fulmar to cubs among rocks	10:35:03:01	35:03 The fox cubs get their share of the feast, an adult seabird.	10:35:03 OUT
CU arctic fox cubs feeding and fight over fulmar	10:35:10:23	They're already displaying signs of independence, fighting over food.	
GV arctic fox cubs feed and fight over fulmar carcass	10:35:17:10	As adults, they will live largely alone and it's quickly becoming every pup for himself.	
MS arctic fox cubs feeding on bird carcass	10:35:23:05		

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LA GV guillemots flock past camera	10:35:25:23		
LA GV seabirds circle over sheer cliffs	10:35:31:01	35:27 High above them, guillemots race to feed their hungry chicks while summer lasts. Only three weeks	
CS guillemots and chick on ledge, chick stretching wings	10:35:34:08	old, it's time for the young birds to take their first flight into the unknown.	
Slo mo CS guillemot watches chick take flight from rock ledge	10:35:38:17		
GV guillemots colony on sheer cliff, seabirds circling screen R	10:35:40:24		10:35:40 IN
GV guillemot flies off ledge past camera	10:35:43:11	35:41 And they only get one shot to reach the safety of the sea. With	
GV guillemot following chick gliding L to R tumbles and lands in the sea	10:35:45:18	Mum following anxiously behind.	
GV guillemot pair following chick hover and land in the sea	10:35:59:19		
LS guillemot and chick approaching to land in the sea L to R	10:36:05:13	36:05 For many it's a perfect, if bumpy landing	
GV guillemot and chick tumble and splash land L to R	10:36:08:06	36:11 But not all of them succeed.	
GV guillemot chick tumbles and lands on the shore bouncing L to R down rocks	10:36:13:16		
GV guillemot chick flapping struggles off down grassy bank	10:36:20:10		
Slo mo MS arctic fox catches guillemot chick	10:36:24:07		10:36:25 OUT
CS arctic fox cubs huddled outside den look up	10:36:27:21	36:26 A botched first flight delivers easy pickings for a mother fox.	
MS arctic fox buries guillemot in moss beneath rock	10:36:32:07	Wiley Mum stores her catch for harder times ahead. In the Arctic, it pays to be prepared.	
CS arctic fox cubs outside den	10:36:41:18		
CU arctic fox cubs	10:36:45:15		
MS arctic fox grooms	10:36:48:17		
Aerial WS track along melting coastal ice edge	10:36:53:01		10:36:53 IN
GV thawing ice	10:36:58:00	36:57 The summer thaw in the Antarctic has melted much of the ice	
VCU emperor penguin	10:37:02:05	and this penguin colony is now on the verge of being	
GV emperor penguins gathered at edge of ice pan L colony and cliffs screen L	10:37:07:14	washed away.	

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MS moulting emperor penguin chick pan down	10:37:14:14	It's make or break time for the chicks. They've started growing their waterproof	
MS partially moulted emperor penguin chicks	10:37:19:22	adult feathers and their parents have stopped feeding them.	
CU emperor penguin at edge of ice, shuffles forward	10:37:24:04	It's time to take to the water whether they	
MS emperor penguins gathered	10:37:28:03	like it or not.	
CU emperor penguins	10:37:33:00		
MS emperor penguins move forward L to R	10:37:39:08	37:38 Eventually, after much hesitation, they summon their	
MS emperor penguins migrate down ice and dive into the water L to R	10:37:42:09	courage and take the plunge.	
CS emperor penguins stream into the water L to R	10:37:46:20		
Underwater GV emperor penguins dive into water and swim off screen R with splash and bubbles	10:37:50:13	37:51 Swimming is a wonderful discovery.	
Underwater GV emperor penguins swim	10:37:54:13		
Underwater MS emperor penguin glides off screen R	10:37:58:21		
Underwater GV emperor penguins glide and swim L to R	10:38:01:07		
Underwater CS emperor penguin surfaces	10:38:05:01		
MS emperor penguin at surface	10:38:08:02	38:07 At last they're almost the same size as the adults,	
Underwater MS leopard seal	10:38:11:13	and a perfect meal for a leopard seal.	
Underwater GV emperor penguins ascend leaving trail of bubbles	10:38:16:17	Having barely wet their beaks,	
Underwater GV emperor penguins ascend through trails of bubbles	10:38:18:10	they shoot back onto the ice.	
VCU emperor penguins leap onto ice through shot R to L	10:38:20:02		
Slo mo GV emperor penguins leap out of the water onto ice R to L	10:38:23:15		
Underwater GV emperor penguins ascend through trails of bubbles	10:38:27:02		
CU emperor penguins leap onto ice through shot R to L	10:38:28:23		
MS 2 emperor penguins leap onto ice from screen R	10:38:33:00		
Underwater GV emperor penguins ascend through trails of bubbles	10:38:36:08		
CS 3 emperor penguins leap onto ice and glide to safety of colony screen L standing up and shaking wings and	10:38:37:24		10:38:44 OUT

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heads			
MS emperor penguins preen	10:38:48:24	38:47 It's been a harsh introduction to the reality of life at sea.	
MS emperor penguin preening	10:38:53:12		
MS emperor penguins slide down ice and dive into the water	10:38:57:17	38:58 But they can't stay here forever. They have to start fishing. It's time for another deep breath!	
Underwater GV emperor penguins dive off ice swim off screen R	10:39:05:08		
Underwater GV track emperor penguins swim L to R	10:39:09:06		
Aerial VWS heavy cloud across wide bay, snow peaks horizon	10:39:18:00	39:13 This time they swim straight out to the open ocean and off to independence.	
Satellite CU Earth Arctic ice sheet	10:39:23:11	39:24 High summer in the Arctic and there's little ice left.	10:39:23 IN
Time-lapse GV melting ice floe shifts, coastal hills b/g	10:39:30:18		
CU polar bear sniffing	10:39:35:00	39:32 It's the hardest time of year for hungry polar bears. There are still a few seals, but not enough ice to hunt them on.	
CU polar bear claws on edge of melting ice	10:39:37:21		
CU seal bobs head up and down through melting ice	10:39:40:15	39:42 There's only one thing for it.	
Slo mo MS polar bear leaps and dives into the water R to L	10:39:43:18		
CU polar bear swimming	10:39:51:11		
GV polar bear and cub swim ice floe b/g	10:39:55:07	39:53 Polar bears are superb swimmers and can easily swim 55 kilometres a day.	
CU polar bear cub swimming	10:40:00:08		
Underwater CS polar bear swimming turns	10:40:03:19		
Underwater CS seal swimming beneath ice sheet	10:40:09:12	40:06 Mum is perfectly at home under water...but seals can swim faster and deeper.	
Underwater GV seal swims off beneath ice shelf	10:40:12:12		
Underwater CU polar bear swimming turns away	10:40:15:19		
MS polar bear emerges at surface	10:40:18:18		
CU polar bear swimming followed by cub R to L	10:40:21:08	40:21 It's time to admit defeat and head for dry land.	10:40:33

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			OUT
Aerial WS track over low cloud across bay low lying hills horizon	10:40:33:15	40:34 Eventually the days close in. Summer slowly fades.	10:40:33 IN 10:40:40 OUT
GV low lying cloud shrouds mountain peaks	10:40:40:10		10:40:40 IN
GV low lying clouds over forested peaks, forest trees f/g	10:40:43:09	40:43 A chill comes to the mountains of Japan.	
MS snow monkey baby chewing on twig	10:40:46:01		
CU snow monkey looks up	10:40:49:02		
GV sunlight through autumn leaves	10:40:52:01		
MS snow monkey baby cuddling up to mother	10:40:54:05	40:56 Mothers and babies must cuddle together for warmth.	
CU snow monkey off screen R	10:40:59:24		
GV snow monkeys scamper up rocks through autumn trees L to R	10:41:01:18		
GV snow monkeys scamper down rocks	10:41:04:06	41:04 Autumn is	
WS snow monkey troop down forested slope autumn leaves	10:41:05:15	finally here.	
Time-lapse WS clouds swirl over mountain river valley	10:41:08:18		
Time-lapse LA CU clouds gather overhead	10:41:13:02		
MS reindeer and calf in winter coats grazing in herd	10:41:18:02	41:19 As they make the most of the dwindling grass, the reindeer calves also grow thicker coats.	
MS arctic fox cub to camera	10:41:27:08	The fox cubs coats are not just getting thicker they're also getting paler to match the coming snow.	10:41:32 OUT
Slo mo MS arctic fox cubs scamper	10:41:34:11	They'll be leaving home	10:41:35 IN
Slo mo GV arctic fox cubs play	10:41:36:18	soon to face their first winter	
Slo mo CS arctic fox cub pounces	10:41:39:06	alone.	
Slo mo MS arctic fox cub leaps and pounces on piece of wood	10:41:40:16	As a result,	
Slo mo GV arctic fox cub tosses bird prey	10:41:42:18	their play is much more like real hunting	
Slo mo GV arctic fox cub rolls and tosses bird prey	10:41:45:19	now. And playing with their food is positively encouraged.	

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Slo mo CS arctic fox cub playing drops stone	10:41:53:15		
Slo mo MS arctic fox carrying turf sod	10:41:55:04		
Slo mo GV arctic fox cubs chase and play	10:41:59:12	41:58 When you're having fun, it's easy to think that the good times	
Slo mo GV arctic fox cubs chase and play, one carrying turf sod	10:42:02:20	will last forever.	
Slo mo CS arctic fox cub tosses bird prey in the air	10:42:05:09		
Slo mo GV arctic fox cub tossing bird prey and playing	10:42:07:20		
CS arctic fox cub to camera	10:42:10:09	42:11 But there's no mistaking the change in the air.	10:42:14 OUT
WS river mouth coastal scenic, dark clouds overhead	10:42:18:06		
CU polar bear dives at surface	10:42:21:10	42:20 Further north, these polar bears have	
GV polar bear cub on rock at water's edge	10:42:23:20	swum back to shore.	
CS polar bear foot raised above surface	10:42:25:19		
CS polar bear feet raised at surface	10:42:29:21	42:27 Until the sea freezes over again, there's little for them to eat.	
MS polar bear playing at surface waves feet in the air and rolls over	10:42:32:20	What is mum up to? Actually	
CS polar bear cub on rock at water's edge	10:42:37:17	desperation is setting in.	
CU polar bear foot waves polar bear appears chewing on seaweed at surface	10:42:39:07	She must forage what she can. A bit of seaweed	
MS polar bear playing tosses seaweed at surface	10:42:47:03	hardly helps with the hunger. It's more like a vitamin pill than a meal.	
CS polar bear chewing on seaweed at surface	10:42:53:06	But it's better than nothing.	
CS polar bear cub up rocks	10:42:55:17		
CU polar bear chewing on seaweed	10:42:58:16		
GV polar bear cub down rocks	10:43:01:10		
CU polar bear chewing on seaweed	10:43:03:19		
CS polar bear cub chases seabird down rocks	10:43:07:07	43:04 While mum hunts in the water, baby grabs the chance to hunt on land.	
CU polar bear playing with seaweed	10:43:11:02		
CS seabird escapes polar bear cub down rocks hopping into the water	10:43:14:06		

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CS polar bear playing with seaweed	10:43:18:10		
CS polar bear cub scampers after seabird to water's edge seabird flies off screen R	10:43:20:05	43:21 Just a little bit more practice.	
CS polar bear up onto rocks shakes off water	10:43:24:16		
CS polar bear cub on rocks beside whale bone	10:43:28:04		10:43:29 IN
GV polar bear on water's edge, whale spine on shoreline f/g	10:43:31:04	43:31 Her baby is still getting milk but it's been months since mum last ate a proper meal. And these	
CS polar bear resting behind whale bone on rocky shore	10:43:39:06	bones from a beached whale were picked clean years ago. All they can do is wait	
WS polar bear on water's edge, whale spine on shoreline f/g	10:43:47:00	for the sea to freeze over.	
WS dark clouds across bay, snow flurry f/g	10:43:54:14	43:57 When winter comes, it makes a dramatic entrance.	
CS full moon and snow flurries	10:44:01:22	Arriving with a force that the snow babies have never experienced before.	
GV snowfall and flurries over rocky peak	10:44:08:15		
GV snow blown rock formations	10:44:13:07		
CU snow blown rock	10:44:17:23		
CU snow blown rocks and ice formations	10:44:21:08		
GV 2 reindeer in blizzard move R to L	10:44:25:15		10:44:26 OUT
GV reindeer in migration through blizzard, scant forest b/g	10:44:32:03	44:27 The youngsters have learned all they can. For most of them, it's time to face the greatest challenge of their lives.	10:44:28 IN
MCU reindeer in migration covered in snow	10:44:37:03	With the change in season, the reindeer turn south.	
GV reindeer in herd migrate through blizzard	10:44:42:06	One thousand five hundred freezing kilometres	
MS reindeer and calf in migration through snow R to L	10:44:47:02	now separate the calves from the lush southern pastures.	
WS reindeer in migration through blizzard R to L	10:44:52:13		
Time-lapse forested slopes with snow and swirling mist	10:44:59:15		
CU sparkling ice crystals fall, snow blanketed forest trees b/g	10:45:04:13	45:04 At last, the first shock is over.	
MS snow covered forest trees	10:45:09:14	The world is transformed.	
Aerial HA GV track over snow blanketed taiga forest trees	10:45:14:09		

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Aerial OH GV track over snow blanketed taiga forest trees	10:45:25:11		10:45:25 OUT
MS snow monkey baby in snowfall	10:45:33:08		
CU snow monkey making snowball	10:45:37:06	45:34 In Japan, this year's babies are seeing snow for the first time.	
CU snow monkey baby	10:45:40:11	45:41 At first, they're just curious. Then they get creative	10:45:43 IN
CS snow monkey baby making snowball	10:45:47:14		
CU snow monkey baby lifts and rolls snowball	10:45:57:01	45:51 Snow monkeys are quick learners and this young monkey has found a wonderful way of entertaining himself. Making snowballs. 46:12 The only problem is, it keeps rolling away.	
CU snow monkey baby lifts snowball	10:46:18:10		
CS snow monkey baby carries snowball up slope	10:46:23:15	46:26 Or maybe that's the point. After all, why else would he take it to the top of the hill again?	
GV snow monkey releases snowball down slope	10:46:39:19		
CU snow monkey baby lifts snowball	10:46:49:24	46:41 For this particular troop of macaques, making snowballs has become part of their unique culture. By copying the others, this little monkey is doing his best to stay part of the gang.	
CU snowball in snow monkey's hands	10:46:56:20		
CS snow monkey baby looking up drops snowball, snowball rolls down slope	10:47:00:04		
GV snow monkeys playing in the snow	10:47:07:16		10:47:11 OUT
MS snow monkey babies playing	10:47:13:14		
MS snow monkey babies playing in the snow	10:47:17:20	47:14 When you're young, snow is fun and extremely exciting.	
MS snow monkey bounds up through snow	10:47:21:08	But the sense of fun doesn't always last.	10:47:21 IN
VCU snow monkey in the snow	10:47:25:02		
		47:28 Snow monkeys are the most northerly monkeys on earth and face winter	

Snow Babies

GV woodland valley in the show	10:47:34:08	temperatures that are well below freezing.	
CS snow monkey carrying baby on its rump	10:47:37:22	47:39 There's nowhere to shelter. And food is hard to come by.	
GV snow monkey carrying baby moves slowly through trees in heavy snow	10:47:45:06	47:55 But snow monkeys are nothing if not resourceful.	
MS snow monkey baby riding on mother's back in the snow	10:48:01:12		
CU snow monkey foraging amongst rocks in the snow pan up baby clinging to its back	10:48:05:23	48:02 They'll eat berries, leaves, fruit, nuts and insects. 48:10 And when there's no food on the ground they'll try the water.	
GV snow monkey and baby foraging among rocks in the snow	10:48:18:02	48:17 And that includes the babies.	
MS snow monkey foraging in rocks in the snow	10:48:22:03	48:23 Small crustaceans are hiding under the rocks.	
CU snow monkey hand lifts stone	10:48:26:21	And this baby snow monkey has been taught by his	
CU snow monkey hands foraging in rocks and weed pan up	10:48:30:06	mum how to find them. It's fiddly work and the water is freezing. But beggars can't be choosers.	
CS snow monkey and baby foraging among rocks in the snow	10:48:45:18	48:47 With their thick coats, adult snow monkeys are well equipped to deal with the wind and the snow.	
MS snow monkey baby in the snow pull back pan R snow monkey f/g	10:48:52:17	48:55 The babies aren't so lucky. Without	
MS snow monkey baby riding on mother's back in the snow exits screen L	10:49:00:02	some respite, this baby could be in real trouble.	10:49:00 OUT
Aerial HA WS pan around geyser spouting steam in the snow	10:49:10:03		
Aerial WS snow covered lake	10:49:16:19	49:17 Back in the Rockies the otter family have no such problems.	
GV otter scampers across ice and into pool with 2 nd otter	10:49:22:16		
MS otters at fishing hole in the snow	10:49:30:23		
CS 3 otters at fishing hole, one eating fish	10:49:35:19	49:33 Thanks to hot volcanic springs there are gaps in the ice which make excellent	

Snow Babies

		fishing holes.	
MS otter feeding on fish	10:49:40:04		
MS 3 otters at fishing hole look up	10:49:44:01	49:47 But they're not alone.	10:49:46 IN
CS coyote prowling	10:49:49:11	A hungry coyote is on the prowl.	
MS 3 otters dive into fishing hole	10:49:52:19		
CS coyote	10:49:55:00		
CS 3 otters out of water on edge of fishing hole	10:49:59:01	49:56 Coyotes will happily kill and eat an otter pup if given half a chance.	
CS coyote sniffing, otters b/g	10:50:02:22	But this one seems to have other things on his mind.	
CS 3 otters alert	10:50:06:22		
CS coyote pounces into deep snow	10:50:10:09	50:08 With his incredible sense of smell, the coyote sniffs out the otters' larder. 50:18 Unlucky.	10:50:13 OUT
GV 3 otters	10:50:20:08	50:20 Watched by the increasingly frustrated otters,	
CS coyote sniffs into deep snow	10:50:23:00	he tries again.	
MS coyote digging	10:50:26:23		
GV otter on edge of fishing hole alert	10:50:31:16		
MS coyote pulls trout from deep snow	10:50:34:00		10:50:34 IN
CS 4 otters alert	10:50:49:07	50:37 This time he's in luck. It's a huge Yellowstone cut throat trout, fresh out of the otters' freezer. Still, better that he takes a fish than a pup.	10:50:42 OUT
GV coyote carrying trout trots off to screen R	10:50:52:15		
WS snow scenic dark clouds over wide valley, hills horizon	10:50:59:07		10:50:59 IN
Aerial WS coastal ice formations	10:51:03:02	51:04 As winter deepens, even the sea freezes.	
Slo mo CU slushy surf rolls in	10:51:09:13		
CU icy slush washes in	10:51:15:24	51:15 The surface turns to icy slush.	
GV ice and slush	10:51:20:01		
CS freezing sea ice plates form	10:51:25:13		
HA GV frozen ice plates and slush	10:51:29:18	51:27 Gradually the ice merges into flat plates.	
CS ice plates and slush	10:51:33:13		
CU ice plates collide	10:51:38:05	51:36 Eventually after much to-ing and fro-ing	

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		the plates lock	
HA CU ice plates collide	10:51:41:12	together.	
WS sunlight reflections across sea ice plate formations	10:51:43:23	And the sea becomes land again.	
WS winter scenic, frozen sea ice across bay, snow capped coastal hills zoom in VLS polar bear and cub	10:51:48:17	51:53 At last, the Arctic is just how polar bears like it.	
GV polar bear and cub crossing frozen ice L to R	10:52:00:12	52:03 They are back on the solid ice and seals are back at the top of the menu.	
HA WS sunset across frozen bay over snow covered headland f/g	10:52:12:19		
GV polar bear alert approaching baby seal in the snow f/g	10:52:15:19	52:14 Hunting day and night this mum has been making up for lost time. Ringed seals are	
CU polar bear pan up	10:52:20:18	abundant and the ice is no longer melting	
GV polar bear dives into the snow	10:52:23:14	underfoot.	
MS polar bear drags and drops seal pup, polar bear cub in screen R	10:52:31:06	52:31 Mum is having a field day and so too is her little cub.	
MS polar bear and cub resting in the snow	10:52:40:00	52:40 With their bellies full, they take a well-earned rest. It's 4 degrees below and just how they like it.	
Aerial VWS snow blanketed tundra	10:52:49:19		
CS arctic fox in white winter coat trots off screen L	10:52:55:00	52:54 And what about the fox cubs? They're all grown up	
GV track arctic fox cantering pull back to wider show frozen plain	10:52:58:14	and living on their own now. Their winter coat gives them the best insulation of any mammal and excellent camouflage in the snow.	
MS arctic fox hunting sniffs the snow	10:53:10:11	This cub is now a master at hunting rodents scurrying beneath the snow.	
GV arctic fox feeding on reindeer carcass	10:53:17:17	But some of the best food is served frozen. Whether killed by illness or by the cold, this adult reindeer will keep for a long, long time.	
CU arctic fox feeding on reindeer carcass	10:53:28:09	The cub's mum and dad would be proud of him.	
WS reindeer in migration through forest trees	10:53:36:02	The reindeer calves are also independent of their mums. Heading south, they're keeping one step ahead of the	
CS reindeer and calves in migration file through shot R to L	10:53:44:23	weather, ensuring the snow is still shallow enough to move through and find food in.	
GV reindeer in migration trot R to L	10:53:52:14		
MS reindeer in migration through snow R to L	10:53:57:06		
CU arctic wolf	10:54:00:21	54:01	

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		Arctic wolves may still be shadowing them.	
CU arctic wolf to camera	10:54:04:02	But the calves are bigger and faster now... and no longer easy prey.	
CS arctic wolf	10:54:10:03		
GV arctic wolf walks off screen R	10:54:13:07		
WS reindeer in migration swarm to camera	10:54:16:20		
Aerial WS track up frozen river, snow capped peaks horizon	10:54:20:23	54:17 The young reindeer still have an epic journey ahead of them but the future is definitely looking brighter.	
Aerial WS low lying cloud clears to reveal shadows at ocean surface	10:54:26:20	But the reindeer aren't the only ones on an epic journey.	
CU emperor penguin at surface	10:54:31:11		
Underwater MS emperor penguins at surface dive L To R	10:54:34:03		
Underwater WS emperor penguin group dives to screen R pan down	10:54:38:13	54:35 Having left the ice at the height of summer, they've journeyed well beyond the Antarctic Circle. At over a metre long the young penguins are now the same size as their parents	
Underwater GV emperor penguins swim past camera pan down	10:54:49:02	and they can dive to a depth of over 500 metres on a single	
Underwater WS emperor penguins group radiating sunlight	10:54:54:13	breath.	
Underwater GV emperor penguins swim L to R	10:54:58:01		
Underwater LS emperor penguin disappears into radiating sunlight	10:55:01:21	54:59 They are, at last, the essence of freedom.	
Dissolve to CS snow flurry	10:55:05:02		
Aerial HA GV 4 otters scamper through deep snow	10:55:10:12	55:09 High in the Rocky mountains, the otter family are staying put.	10:55:09 OUT 10:55:11 IN
CS 3 otters scamper and glide through snow	10:55:13:24	55:15 They have a plentiful supply of fish and will stay together all winter, looking after each other.	
HA GV 4 otters toboggan down through deep snow	10:55:22:14	55:23 Having mastered the art of survival, they can now afford to play.	
GV 4 otters scamper and slide through deep snow	10:55:30:20		
GV otter floundering and diving down through deep snow	10:55:39:18		

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CS otter leaps and glides down snow off bottom screen	10:55:49:23	55:48 Why run when you can toboggan?	10:55:57 OUT
CU snowflakes flurry	10:55:58:12		
MS snow monkey hunched in the snowfall	10:56:02:14	56:00 But life doesn't look quite so easy for the Japanese macaques. In their volcanic mountains, the snow monkeys	10:56:03 IN
MS snow monkey in snowfall	10:56:09:20	are living up to their name.	
HA LS snow monkey troop down steep snow through snow	10:56:14:17	56:15 The weather has taken a turn for the worse.	
GV snow monkey scamper down boulders through snow	10:56:19:21	56:20 But they have a secret.	
MS snow monkey carrying baby down rocks enters thermal pool to join other monkeys	10:56:25:16		
GV snow monkeys bathing at geothermal hot pool in the snow	10:56:32:15	56:29 Heated by the volcano, it's an enormous hot tub.	
CU snow monkey babies playing in thermal pool disappear underwater	10:56:37:17	56:37 For a little monkey, it doesn't get better than this.	10:56:37 OUT 10:56:39 IN
Dissolve to CU snow monkey babies appear at surface in geothermal pool	10:56:44:06	56:43 Surrounded by family and friends, all his efforts to get in with the rest of the troop have finally	
CU snow monkey being groomed in hot pool	10:56:48:24	paid off, he hasn't been left out in the cold.	
VCU snow monkey baby	10:56:59:09		
CU snow monkey baby and mother, other snow monkeys in geothermal pool b/g	10:57:06:22	57:05 But there's someone who deserves some special attention. She's seen him through the toughest	
VCU snow monkeys groom at hot pool	10:57:12:02	times. She's nursed him, protected him	
CU snow monkey mother grooming baby in hot pool, baby grooms mother	10:57:16:11	and taught him everything he knows. Because of her, his future is looking good. 57:27 Thanks, mum.	
CU snow monkey relaxing closes eyes view through drifting steam clouds	10:57:36:07		
VCU snow monkey baby yawns then looking about from hot pool	10:57:41:20	57:47 Thanks to everything they've learned along the way, all our snow babies have made it through the most difficult time of their young lives. With a little help	
GV snow monkeys bathing at geothermal pool in the snow	10:57:58:22	from family and friends.	

