



Earth's protective shield is weakening: Trio of Swarm satellites could reveal how fast the planet's magnetic field is fading

- Swarm measures different magnetic signals from Earth's magnetosphere
- Scientists claim the magnetosphere - our protective shield - is weakening
- This can allow harmful solar radiation to penetrate planet's atmosphere
- The initial results from Swarm are due to be presented at a conference on 22 June to 2 July in Prague, Czech Republic

By [ELLIE ZOLFAGHARIFARD FOR DAILYMAIL.COM](#)

PUBLISHED: 20:15 GMT, 22 June 2015 | **UPDATED:** 21:49 GMT, 22 June 2015

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Earth's protective shield is slowly weakening, allowing harmful solar winds to penetrate the planet's atmosphere.

Known as the magnetosphere, this shield extends thousands of miles into space and affects everything from global communication to weather patterns.

The European Space Agency's Swarm mission aims to map changes to magnetosphere – and, after a year in orbit, it's now provided a glimpse into its dynamics.

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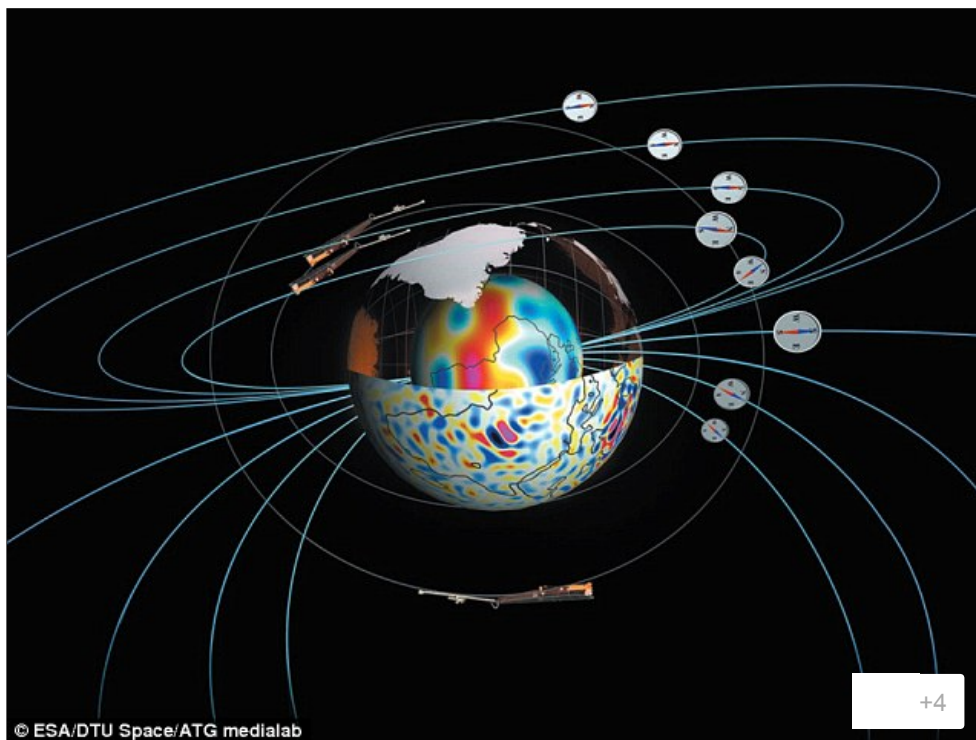
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The European Space Agency's Swarm mission aims to map changes to magnetosphere – and, after a year in orbit, it's now provided a glimpse into its dynamics. The image highlights the new crust (bottom) and core (centre) magnetic field models from Swarm. These preliminary results are based only on the first year of data

The initial results from Swarm are due to be presented at the General Assembly of the International Union of Geodesy and Geophysics on 22 June to 2 July in Prague, Czech Republic.

Rune Floberghagen, Swarm Mission Manager, said, 'These results show that all the meticulous effort that went into making Swarm the best-ever spaceborne magnetometry mission is certainly paying off.'

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No shout-out this time! Harry Styles storms the stage with One Direction bandmates in Sweden... after calling out an old friend for stealing his girlfriend





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A weakened magnetosphere means that more aurora will be seen on Earth as solar winds hit the atmosphere

WHAT COULD HAPPEN IF OUR MAGNETOSPHERE CONTINUES TO WEAKEN?

The magnetosphere protects the Earth from solar radiation.

If it weakens dramatically, radiation at ground level would increase with some estimates suggesting that overall exposure to cosmic radiation would double causing more deaths from cancer.

The Electric grid collapse from severe solar storms is a major risk.

As the magnetic field continues to weaken, scientists are highlighting the importance off-the grid energy systems using renewable energy sources to protect the Earth against a black out.

'The very highly charged particles can have a deleterious effect on the satellites and astronauts,' added Dr Mona Kessel, a Magnetosphere discipline scientist at Nasa.

The Earth's climate could also change. A recent Danish study has found that the earth's weather has been significantly affected by the planet's magnetic field.

They claimed that fluctuations in the number of cosmic rays hitting the atmosphere directly alter the amount of cloud covering the planet.

A weakened magnetosphere will also mean that more aurora will be seen on Earth as solar winds hit the atmosphere.

Swarm is the first mission to take advantage of something known as 'magnetic gradiometry', which is achieved by two of the satellites orbiting side-by-side at a distance of about 60 miles (100km).

This is used to unravel the details of the magnetic field produced by magnetised rocks in Earth's crust.

Nils Olsen from DTU Space in Denmark said: 'We are extremely satisfied with these preliminary results.'

'Not only do they validate the gradiometry concept, but they also confirm the remarkable accuracy of the satellites' absolute magnetic measurements.'

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Look blooming beautiful like Blake Lively and Lucy Mecklenburgh this summer with the trend for tropical prints
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No model diet here! Kendall Jenner displays thin figure in chic black outfit as she chows down on pizza with sister Khloe
Chowing down



Daisy Lowe shows off her model body in a chic flared jumpsuit as she parties on board the MailOnline yacht at the 2015 Cannes Lions festival



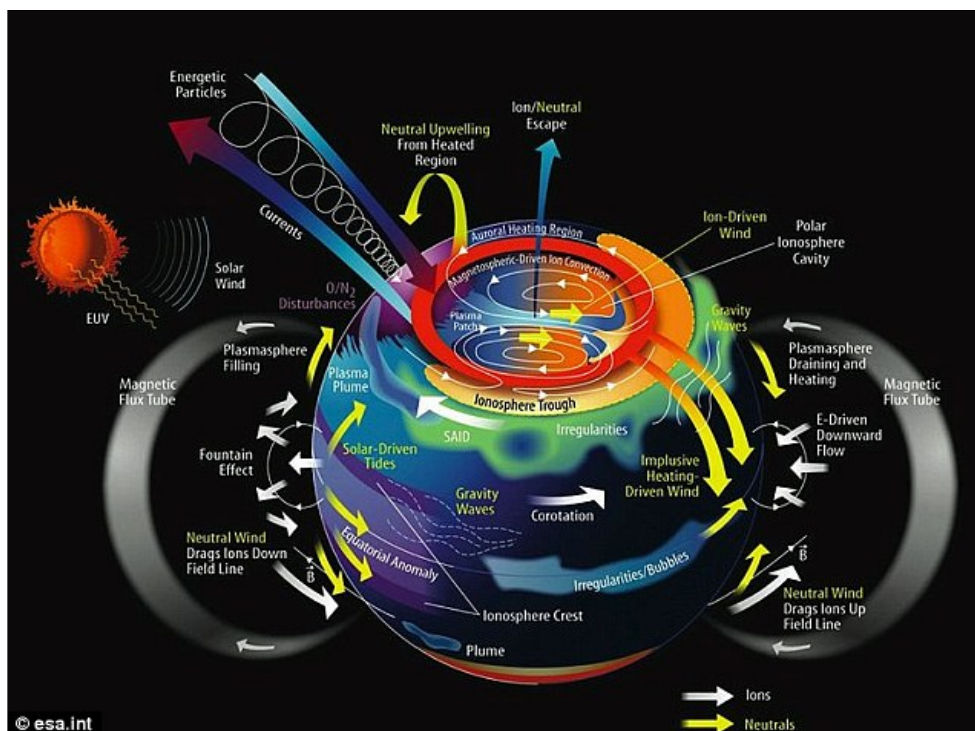
Taylor Swift takes to the stage in flirty costumes for 1989 world tour... as she hints to the crowd in Glasgow 'she's in love' with boyfriend Calvin Harris



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The layers of Earth's upper atmosphere, the ionosphere, and magnetosphere, form a closely-paired, interacting system. Swarm is contributing to a better understanding of near-Earth electric current systems and processes as shown in this graphic

The Swarm constellation also makes it much easier to monitor the changes that occur in the main field produced in the Earth's core, which protects us from harmful charged cosmic particles.

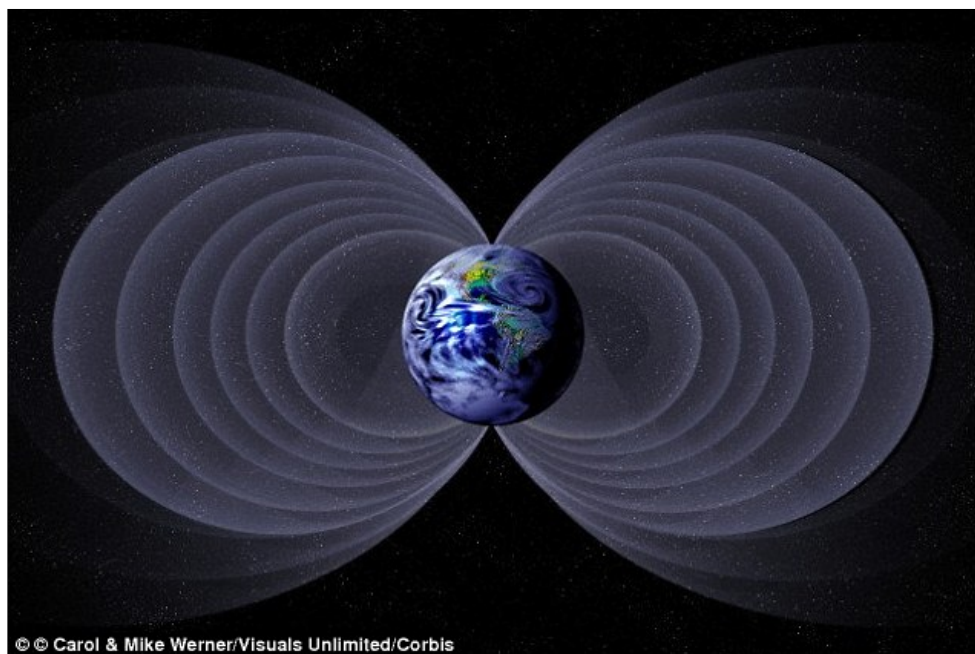
'Our magnetic field is largely generated by Earth's outer core,' said Gauthier Hulot, one of the lead proposers of the Swarm mission.

'The constellation provides detail on the way the field is changing and thereby weakening our protective shield.'

'This is what will ultimately make it possible to predict the way this field will evolve over the next decades.'

The Swarm satellites will be in orbit for another three years at least.

These results will be presented at the 26th General Assembly of the International Union of Geodesy and Geophysics on 22 June to 2 July in Prague, Czech Republic.



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The Earth's protective shield extends thousands of miles into space and affects everything from global communication to weather patterns

SHELLEY

No contrived cliffhangers



Can you Believe she's 69? Cher turns heads in skintight bodysuit and eclectic jacket as she departs from LAX
Looking sensational for almost 70



Kim Kardashian is joined by her 'clique' - including mother Kris, sister Kylie, Tyga and Lewis Hamilton - at dinner ahead of Cannes Lions festival



Are they Mariah approved? Carey shows off her cleavage in OTT low-cut gown while billionaire beau James Packer sports favourite TRACKSUIT bottoms



'You're too beautiful to be with him!' Mariah Carey's fans react harshly to her rumoured romance with billionaire James Packer
Fans not impressed



Curves ahead! Amber Rose displays famous derriere in skintight leggings for motorcycle ride with new boyfriend Machine Gun Kelly
New love



Eyes front Jada! Pinkett Smith doesn't know where to look as she's flanked by shirtless hunks at Magic Mike XXL screening in Atlanta



Lily Allen smartens up in a striped shirt and plum platform heels as she enjoys a London night out after 'terrifying' end to her countryside caravan holiday



He's got game! Adrian Grenier spotted chatting to yet another mystery woman as he relaxes on the beach during Cannes Lions festival
Hit with the ladies



Not ready to end the party! Porsha Williams drags out 34th birthday celebrations at Magic Mike XXL screening in corset style dress
Celebrated in style



Rachael Leigh Cook reveals trim figure in red dress two months after

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giving birth... as she attends Max premiere with husband Daniel Gillies



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Relaxing vacation

Pregnant pause! Kristin Cavallari shares snap of herself holding her bump while on a break from filming mystery new project
Expecting third child



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Did Karrueche Tran reveal that Ruby Rose has in fact tied the knot with her partner Phoebe Dahl? Chris Brown's ex says OITNB star is 'happily married!'



That will raise awareness! Transgender model Andreja Pejic locks lips with Kelly Osbourne at AIDS charity event
Pair shared a kiss



Chloe Sevigny can't seem to get enough as she debuts new romance with mystery beau during PDA-filled stroll in New York City



Showing him what he's missing? Olivia Culpo strips down for steamy Galore Magazine shoot after splitting from Nick Jonas
Sculpted physique



'Just hear me!' Bethenny Frankel screams and swears at Sonja Morgan during heated row on Real Housewives Of New York City



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Rocked the denim-on-denim trend



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roddysey, out west, United Kingdom, about an hour ago

its impossible for the earth to be a sphere. if u thinks that's ridiculous. try standing on your head for 24 hours. then u can reply to me. serious answers only please

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2

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Art_Bell, Miami, about 9 hours ago

Gotta be global warming - there can be NO OTHER EXPLANATION!!!

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Kane, perth, Australia, about 10 hours ago

course Electricty and iron mining to blame ,and space explorations including satellites .All the un natural movement of iron all over globe and in air too,constantly eroding natural harmonics They know all along too Have for centuries They hate Earth and humans Really Who could conceive of such evil ?People are too trusting , to gullible too ignorant to see the Truth.They

think its fantasy and fantasy is it.

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2

3

dww25, Norwich, about 12 hours ago

I bet that report will never reach the public domain!

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Vickie, Houston, United States, about 9 hours ago

This report was first published a year ago. News to you, I guess. Just google it.

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1

0

Mr M, Oxford, United Kingdom, about 12 hours ago

The Earth's magnetic field is about to go through what could be called a Cameron event, better known as a complete U-turn.

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2

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TaraOahu, Papeete, French Polynesia, about 14 hours ago

So, will this happen before next Thursday? I'm flying to New Zealand and wonder how much sunblock I should bring.

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3

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richardsondp, Santa Clarita, United States, about 14 hours ago

The real danger as the Poles begin their flip ...is the lost atmosphere blown away into space. Theories that Mars once had a strong magnetic field all but gone now as well as any atmospHERE it once had.

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2

Kumar Patel, Toronto, Canada, about 15 hours ago

"A recent Danish study has found that the earth's weather has been significantly affected by the planet's magnetic field." --- what? Obviously ignorant denier heretics, should be burnt at the stake for denying AGW ;)

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username42, Saarffff, United Kingdom, about 16 hours ago

Once the magnetosphere fails we all die as the Sun rips our atmosphere away and radiation pours in.

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4

2

DWalla, Salt Lake City, United States, about 15 hours ago

It's not going to fail.

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Mike, West Midlands, about 17 hours ago

Hmm We are long overdue for the magnetic field to flip. It has happened many times in the history of earth

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HMantour, England, United Kingdom, about 17 hours ago

the only way to save the planet is to double the green taxes. Our politicians and the scare mongers need more money to combat whatever ...

Suki Waterhouse looks chic in silky patterned shirt dress at Coach And Friends event
Her own stylish spin



Chris Rock goes to jail... but it's just for a guest spot on Empire as filming begins for season two
Due back on screens in September

Battle of the blondes! Chloe Grace Moretz and Kate Bosworth rock Coach clothing at party on Manhattan's High Line
Brand's summer bash



Cobie Smulders showcases her slim post-baby body in plunging jumpsuit at the NY premiere of Unexpected
Gave birth in January



Lizzy Caplan charms the masses in boldy printed dress to promote Masters Of Sex season three on Jimmy Kimmel Live
Upcoming third series



'Just do it!' Three-year-old girl's hilarious spoof of Shia LaBeouf's intense speech declaring that 'nothing is impossible' sweeps the internet



Going undercover: Salma Hayek attempts to fly under the radar as she dresses in all-black at LAX
The 48-year-old dressed down for travel day



There's tum-thing about Bella! Miss Thorne wears two midriff-baring outfits as she hits fashion event in New York City
Flashed her stomach



Yoga, green smoothies and daily gym sessions with Juliet: Pollyanna star Hayley Mills reveals her secrets to looking and feeling fabulous at 69



Rita Ora is a fashionable flyer as she rocks a black leather biker jacket and midriff revealing top while jetting out of New York
Covered up



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Promoted her new short film



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Mother/daughter day in the Big Apple



Eva Longoria sets pulses racing in tight jeans as she gets affectionate with co-star Demian Bichir while filming Low Riders
Cuddled up to co-star



The honeymoon period is over for Big Brother lovebirds Harry Amelia and Nick Henderson...as the housemates' revolt leads to a huge Nikki Grahame meltdown



James Packer peels his eyes off new squeeze Mariah Carey for a moment to chat to wealthy female producer aboard his \$50 million dollar yacht



Feeling fruity! Jessica Alba shows some skin in pineapple print dress as she brightens up a rainy day with her daughters
Eye-catching



Spencer Matthews and Lauren Hutton put on VERY amorous display as they enjoy a daytime date in the wake of the dramatic Made In Chelsea finale



Back on! Miley Cyrus' brother Trace holds hands with ex-girlfriend Brenda Song as they pose arm-in-arm on beach
Pacific portrait



'They're great!': The Voice Australia coach Benji Madden puts rumours twin brother Joel and Nicole Richie have split to rest
Insists pair are 'happy'



Lindsay Lohan looks happier than ever as she dons backless top for lunch date... after revealing she wants to

make London her permanent home



Harper Beckham skips down the street clutching her doll as she enjoys a day out with her dressed-down parents David and Victoria



'He wrote music from the heart, and he had a big beautiful heart': Titanic director James Cameron pays tribute to Oscar-winning James Horner



Selena Gomez shows off her toned legs in yoga tights after revealing Jennifer Aniston gives her 'maternal advice'



Busted! Kelly Osbourne shows off her cleavage in stylish black gown at a charity event in NYC

The 30-year-old looked effortlessly stylish



Walkers frontman Gary Lineker teams up with Black Lace tribute band for 'seriously silly' 80s throwback ad

Film crew in tow for latest offering



Embattled Josh Duggar wishes 'beautiful wife' Anna happy birthday as she turns 27... while his parents say they 'love her dearly'



Back to reality: Calista Flockhart touches down in LA with son Liam after a week long holiday with husband Harrison Ford
Celebrating their 5-year wedding anniversary



Caitlyn Jenner 'spoiled by children and gifted dresses and shoes from Khloe and Kim' on her first Father's Day as a woman



SEBASTIAN SHAKESPEARE: Director Eyre attacked in a cafe over tell-all memoirs
Dangerous occupation writing memoirs



Shall we take the plane or the hammer? Thor star Chris Hemsworth

touches down in London with makeup free wife Elsa Pataky after trip to Maltese Islands



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Style in black and white! Sofia Vergara and Reese Witherspoon dress in chic contrasts to promote Hot Pursuit in Mexico

Muy caliente indeed!



Tamara puts boot into Choo: Shoe designer goes to war with brand because they are making it difficult to expand her own label
At war



Kara Tointon stands out in flattering vibrant orange and white outfit she steps out at VIP tennis party
Kara led the glamour at London event



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Joined forces



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Get over it Kanye!



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The couple paid \$11.85 million back in 2010



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United with love



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Doting dad Andy Carroll beams with pride as fiancée Billi Mucklow cradles newborn baby son Arlo in sweet family snap
Picture of bliss



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**after being
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technology hybrid
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military chic in khaki
jumpsuit and gold heels
as she enjoys a night
out in LA... before
meeting her new girl
crush Ruby Rose**



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Running errands



'Just stop!' Lingerie giant Victoria's Secret comes under fire from fans on social media for 'ripping off' bikini design by indie swimwear brand Triangl



'Women have hit on my husband right in front of me!' Sheree Murphy admits she's rowed with admirers of her soccer star spouse Harry Kewell



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Golden opportunity



'She asked to take a picture with me': Britney Spears' 'Louisiana boy' Harris Beall reveals how they met just after her split from Charlie Ebersol



Doting mother Anna Friel cuddles daughter Gracie, nine, on Dublin set of edgy new thriller I.T.

Caught up with her daughter between takes



What will the neighbours say? New mum Kimberley Walsh dyes her golden locks bubblegum pink for a sweet summer look
Head-turning new 'do



CANNES LIONS:
Trudie Styler looks elegant in blue and white floral dress as she cosies up to Sting on MailOnline yacht at Cannes Lions festival



Move over Cookie!
Taraji P. Henson outdoes her racy Empire character with a steamy and sultry braless photo shoot
One step further



A royal welcome! The Queen is flanked by impressive police bike escort in Berlin at start of four-day Germany trip that includes her first visit to a Nazi concentration camp



Anything dad can do...
Brooklyn Beckham posts near-identical boxing snap the day after father David's workout post
Family fitness



Rosie Huntington-Whiteley cuts a stylish figure in cleavage-baring shirt and floral wide-legged trousers for romantic night out with Jason Statham



Pregnant Kim Kardashian shows off the first glimpse of her baby bump in VERY low-cut bodysuit as she touches down in Nice ahead of Cannes Lions



Smitten Alice Eve and husband Alex Cowper pack on the PDA with a romantic kiss and al fresco lunch in London
Married on New Year's Eve



The CEO of Jay Z's music-streaming service Tidal quits after just three months
Peter Tonstad, the CEO of the Swedish company, quit on Tuesday



Chris Evans enjoys some quality time with wife Natasha and their two sons... as it's

confirmed that he will
present TFI Friday
reboot AND Top Gear



'I'm scared to death
around here!' 50 Cent
mocks P Diddy and
pretends to bail him out
following UCLA arrest
Kicking a man while he's
down!



How low can she go?
Rita Ora flashes
extreme cleavage in
plunging white shirt and
mini-skirt as she heads
out for dinner
Seriously risky choice



CANNES LIONS: 'I've
f***ed up 40% of my
ventures': Chef Jamie
Oliver says his past
mistakes have taught
him powerful lessons
Candid seminar



Eight Is Enough and
The Love Boat star Dick
Van Patten dies aged 86
Passed away in St.
John's hospital in Santa
Monica on Thursday



Plus-size model
Denise Bidot bares her
body in stunning un-
retouched swimwear
campaign video and
insists 'curvy women
don't have to apologise
for who they are'



Doting dad David
Beckham melts hearts
as he plants a kiss on
cute daughter Harper's
cheek after lunch with
eldest son Brooklyn
Besotted father



Jamie Chung puts on a
leggy display in a ripped
denim mini skirt as she
grabs lunch in LA
The 32-year-old star is
engaged to actor Brian
Greenberg



BBC in new ageism
row as Judi Spiers is
ousted from her long-
running radio show at
the age of 62
Sparked outrage from
listeners



Mission Kim-possible!
After trying to copy Ms
Kardashian's wardrobe
and make-up, one writer
attempts to exercise,
eat and selfie just like
Kim



Maria Fowler shows off
her incredible weight

loss in a tiny bikini after losing 22lbs in six weeks... and reveals plans for a second boob job



Amal Clooney is uncharacteristically dressed down in low-cut crop top and checked jacket as she takes a day off from her busy job

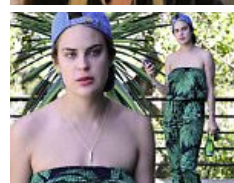
'It's been the greatest five years of my life': Kate Gosselin, 40, insists she's happier post divorce as she flaunts bikini body in new TLC special



'She breached her contract': Danniella Westbrook has been AXED from Hollyoaks return before filming a single scene
TV comeback cancelled



Jungle fever! Tallulah Willis goes for a walk on the wild side wearing palm print jumpsuit running errands in Los Angeles
Eclectic ensemble



'We have remained friends': Kym Marsh reveals she is working out with ex Matt Baker... two weeks after splitting from personal trainer fiance Dan Hooper



Alec and Hilaria Baldwin leave their newborn son Rafael at home as they enjoy a low-key date night just one week after his birth
Their second child



Coleen Rooney displays her sun-kissed limbs as she touches down in Liverpool with husband Wayne after attending close friend's wedding in Portugal



A bearded Sting and wife Trudie Styler enjoy romantic lunch date in Nice before heading to Cannes Lions festival
Lunched at La Colombe d'Or



That's not what you expect from Alan Titchmarsh! Mild-mannered gardening guru causes a stir on breakfast TV by talking about 'b*****d trenching'



'I don't like having a strange atmosphere': Taylor Swift admits she doesn't feel like she is in competition with her A-list pals when they party at award shows



Cameron Diaz wraps her arm around husband Benji Madden as they enjoy double date with his brother Joel and sister-in-law Nicole Richie



Tamara Ecclestone and Sophia enjoy some mother daughter time at hair salon... after the socialite defended her breastfeeding pictures



'On fleek to on bleek': Jessie J cuts a glum figure in video taken from her hospital bed after undergoing mystery operation
Had op on Tuesday



Myleene Klass nails double denim in button-down shirt and skinny jeans as she films new TV series BBQ Champ
Looked effortlessly chic on set in London



Chelsea midfielder Cesc Fabregas plays role of doting boyfriend as he helps heavily pregnant partner Daniella Semaan safely board a boat on holiday



PICTURE EXCLUSIVE: Julia Roberts, 47, reveals impressive curves in blue bikini as she enjoys Mexican holiday with husband Danny Moder



Cara Delevingne set to become an auntie again as it's revealed older sister Chloe is six months pregnant with her second child
New addition



Lorraine Kelly poses with lookalike daughter Rosie, 20, as she discusses wanting more children and the pain of suffering a miscarriage
Candid interview



Make-up free Kendall Jenner highlights her model legs in grey skinny jeans and an oversized top as she steps out for dinner
Headed out with friends



Caliente! Reese Witherspoon and Sofia Vergara sizzle in sexy red frocks at Mexico premiere of Hot Pursuit

Co-stars coordinated their outfits



CANNES LIONS:
'Without a doubt Adele':
Pharrell Williams says
British singer is the
main artist in the world
'getting it right'
 Spoke to Ryan Seacrest

Chris Evans WILL
present new series of
TFI Friday as Channel 4
reveals Nineties hit is to
return despite host
landing Top Gear job
 Follows one-off special



Lindsay Lohan reveals
she wants to become a
British citizen... as she
admits she is keen to
'settle in London
permanently'
 Moved to UK last year



'Times may have
changed but these
things are important':
EastEnders veteran
Barbara Windsor dishes
out advice the soap's
younger stars



Sean Penn puffs on a
cigarette as he takes a
stroll with daughter
Dylan... after Charlize
Theron 'calls off their
engagement'
 Family support



Amber Heard turns
every head in skintight
black dress and scarlet
heels as she makes her
way to Tonight Show
appearance
 Looked magic



Rooney Mara takes a
well-earned break as
she lights up a cigarette
on the set of her steamy
new thriller Blackbird
 Filming intense new film
 Blackbird



A portrait of Caitlyn
Jenner on Father's Day:
Kardashian clan unite
with Jenner boys to
support transgender
parent... and even
Kanye's smiling



'She let me stay up
past my bedtime and eat
sweets': Danny Dyer's
daughter Dani, 18,
reveals a teenage Keira
Knightley was once her
babysitter



Not taking the Mickey!
DJ Deadmau5 and Walt
Disney settle 'mouse

ears' legal row

The company launched legal action last year over a trademark row



Ruby Rose mingles with more high flyers as she poses for a photo with Karrueche Tran...
just days after the US model said she has girl crush on her

CANNES LIONS: 'If you were part of the camouflage, you got lost': Pharrell Williams said his humble upbringing gave him the confidence to stand out



'B** I'm Madonna':** The Queen Of Pop expects fans to fork out a WHOPPING \$3,000 to see her perform Down Under for the first time in 23 years



Statuesque beauty Gwendoline Christie towers over diminutive Jessica Chastain as the actresses joke around during pre-Wimbledon party



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GADGET REVIEWS

The best all in one wireless speaker you'll ever hear: Naim Mu-so review

It might not be a name familiar to the US market, but Naim is a legendary British brand hoping to make a splash with the American launch of its \$1499 Mu:So speaker.

3 comments 1 video

The Mail's verdict on the Apple Watch

While it's not the first smartwatch on the market, the \$349 (£299) Apple Watch is the first you'll actually want to use - and will change the way you communicate.

501 comments 5 videos

\$99 'morphing' Phorm case adds physical keys to iPad

Californian-built Phorm (pictured) consists of a case and screen protector lined with microfluidics - small amounts of fluid that raises up from the screen when a button on the case is pressed.

4 comments

1 video

Apple iPhone 6 and 6 Plus

MailOnline has spent a week with Apple's new handsets - and found they could change the way we shop - and put clear water between Apple and it's rivals.

633 comments

1 video

The tiny \$299 wireless headphones that could mean the end of tangled wires

The Dash headphones are wireless, and even contain their own MP3 player and fitness trackers, and won a best in show award at CES in Las Vegas.

106 comments

1 video

Headphones: Musical Fidelity EB-33

The Musical Fidelity EB-33 in-ear headphones are impressive. They offer a strong performance which more than matches their value - and look good too.

comments

Gadget of the week: Orbotix Sphero 2.0

The Sphero 2.0 is a modern Christmas present. In years past you would have had a remote-control racing car running on AA batteries.

1 comment

1 video

Gadget review: Snugs fitted earphones

Sound quality is normally the purpose of a headphones review - but not in the case of Snugs, because they can be used on any earphones.

comments

Gadget of the week: Waka Waka solar powered lamp

The Waka Waka lamp and phone charger is a useful camping tool and something that could be extremely useful in the developing world.

comments

Gadget review: Tivoli Radio Silenz noise cancelling headphones

The Tivoli Audio Radio Silenz headphones are light, comfortable and portable, which makes them good for travel. They feature stylish wood panels.

comments

Gadget review: Jawbone Mini Jambox

Fun. That's the first word that comes to mind when reviewing the

Jawbone Mini Jambox. As you would expect from a product with mini in its name, it's small.

[comments](#)

Gadget of the week: Philips Wake-up Light can make the mornings easier

Nobody likes getting up in the morning. That's a fact. So spending money on anything that makes it less painful is probably a sound investment.

[3 comments](#)

Gadget review: Skullcandy Crusher Headphones

The Crusher does exactly what it says on the tin. Unleash an unrelenting torrent of deep bass through your eardrums. Be warned, these are not for the faint-hearted.

[comments](#)

Gadget review: Klipsch Image X7i in-ear headphones with 3-button control

The Klipsch X7i headphones are nearly perfect. Nearly. The sound is excellent - and in headphones, that's 90 per cent of the battle won. Just some blips hold them back.

[comments](#)



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