



# times Extra

weekend Guide

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## A week of walking in **SCOTLAND**

Walking along Scotland's long-distance trails is like enjoying its wildly variable landscape. Two walkers wrote a daily recount of their seven-day journey through moors, peat bogs and forests.



- MOVIES: DUNKIRK
- BOOKS: WIRED (BERKLEY) BY JULIE GARWOOD
- MUSIC: SACRED HEARTS CLUB BY FOSTER THE PEOPLE
- WINE: THE EBULLIENT NORTH
- ENVIRONMENT: WORLD'S PLASTIC WASTE



## DRIVE IN

Lindsey Bahr, AP Film Writer

## RIVETING 'DUNKIRK' IS NOLAN'S, AND YEAR'S, BEST

"Dunkirk" is not a typical war movie. There are no brothers in arms, no flashbacks to simpler times and pretty wives and girlfriends left behind, no old men in situation rooms pontificating about politics or helping with exposition. There's no talk of Hitler, or Germans or battlefields or trauma or mothers. In fact, there's hardly any talk at all, or, for that matter, even any characters in the traditional sense. But don't be mistaken: Christopher Nolan's "Dunkirk" is a stone cold masterpiece. It's a stunningly immersive sur-

vival film told in 106 thrillingly realized minutes. Nolan puts the viewer right in the action whether it's on the beach with 400,000 men queued up and waiting for a rescue that may never come, on the waters of the English Channel in the little civilian ship headed into hostile waters with only an aging man and two teenage boys aboard, or in the air above in the two lone Spitfires that are quickly running out of fuel. I've never experienced anything quite like "Dunkirk's" intoxicating immediacy. The screen and images envelope you with

urgency, dread and moments of breathtaking beauty and grace as you wait with the soldiers, as the title card at the beginning says, for deliverance.

The story begins on the ground, with a young soldier, Tommy (newcomer Fionn Whitehead) wandering the deserted streets of Dunkirk looking for water and a place to relieve himself. Propaganda flyers float down to the ground reminding the soldiers of something they're already well aware of — that they're surrounded. "Surrender + Survive!" the flyers read as Hans Zimmer's gently ominous score plays in the background telling us that while it may be calm for a moment, it is not safe. A deafening gunshot breaks the silence, and, fair warning, your racing heart will not stop for quite some time. Nolan follows Tommy back to the beach where soldiers stand in long lines that stretch to the water, where no boats approach. His part is nearly silent, his motivations unknown. They are all haunted shells, stripped of meaningful weapons and a military purpose. He and the rest just know they need to get off the beach at any cost.

We accompany Tommy as he tries to achieve that objective which eludes him with almost comic frequency. He's the unluckiest lucky fellow out there. Occasionally we get the sobering perspective of the higher

AP PHOTO



This image released by Warner Bros. Pictures shows Harry Styles (from left) Aneurin Barnard and Fionn Whitehead in a scene from "Dunkirk"

ups, compliments of the great Kenneth Branagh as Commander Bolton.

In the air there are the two Spitfire pilots, Farrier (played by Tom Hardy, whose face is once again largely obscured but who can act circles around many of his contemporaries even with just the use of his eyes and eyebrows) and Collins (Jack Lowden). They get to be the lofty, classical heroes of war films past as they shoot down the enemy. Hardly has a film ever made you feel as in the moment as this.

And on the sea, the three civilians, Mr. Dawson (Mark Rylance), Peter (Tom Glynn-Carney) and George (Barry Keoghan) who, like so many during the Dunkirk evacuation, took it upon themselves to captain their own

small vessel and journey into war dressed in their seaside knits and armed only with lifejackets and blankets to help save their country's stranded men. They're the beating heart of film, especially when pitted against a shell shocked soldier (Cillian Murphy) who is determined to stop them from going back to Dunkirk.

These narratives intertwine and loop back and repeat from different vantage points with stunning effectiveness — never seeming redundant or dull. Nolan finds suspense at every angle, and ramps up the tension with the help of Zimmer's ticking score. While, there might not be character arcs to speak of, the performances are first-rate nonetheless (even pop star Har-

ry Styles, who might just have another viable career option). Nolan continues to be unparalleled in Hollywood — working on a scope that few are able to. As many filmmakers experiment with the small screen, Nolan has only gone bigger and bolder with his commitment to film and IMAX. What a case "Dunkirk" is for the movie theater. Not only that, "Dunkirk" is far and away the best film of the year, and Nolan's finest too. See it big and then see it again.

**"Dunkirk," a Warner Bros. Pictures release, is rated PG-13 by the Motion Picture Association of America for "for intense war experience and some language." Running time: 106 minutes.★★★★**

## BOOK IT

## GARWOOD DELIVERS ANOTHER SUSPENSEFUL ROMANCE WITH 'WIRED'

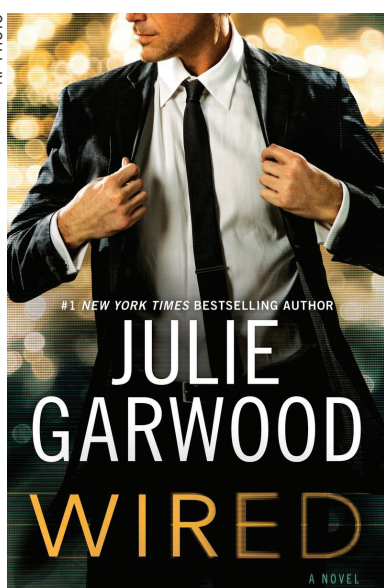
Julie Garwood delivers another suspenseful romance with her new novel, "Wired." Readers will be immersed in a world of digital coding where computer hackers reign as heroes. Allison Trent works as a model to pay for her college loans, but her true passion is writing the code she's developing for a software security program. Allison is a computer genius. And when she learns that the residents of a nursing home in her community have suffered from a hacking scandal, she takes matters into her own hands. The college student hacks the hackers, steals back the millions they took and provides an anonymous tip to the FBI on where the culprit and the money can be found.

After the nursing-home escapade, Allison becomes an occasional hack-tivist, digitally diving in to save the day from internet bad guys when she can. But her actions are illegal, and that's why she becomes extremely nervous when FBI Agent Liam Scott tracks her down. But instead of hauling her to jail, Scott offers Allison a job.

He needs the best of the best to hack into a system that's extremely sensitive and highly secure — the FBI. Agent Scott has found a leak, and he needs someone to help locate the mole from the inside without being noticed or leaving a digital footprint.

Allison turns down the job because she's hiding some pretty big secrets from the government. But Scott is relentless. He knows Allison is the FBI's best shot at finding the leak.

AP PHOTO



"Wired" (Berkley) by Julie Garwood

(It also doesn't hurt that she's the most beautiful woman he's ever seen in his life.) He eventually persuades her to accept the job. One thing is sure: Falling in love isn't an option.

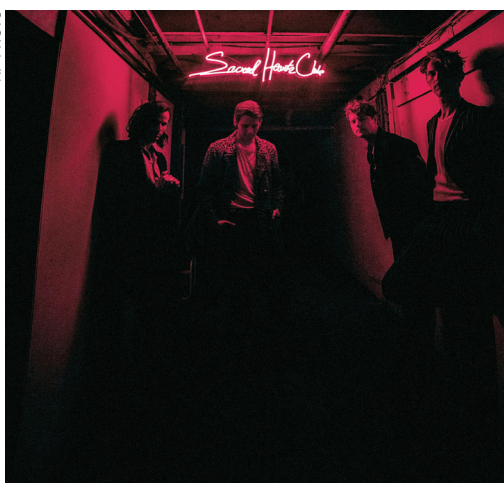
Once again, Garwood delivers another suspenseful, highly entertaining and romantic story line in "Wired."

Lincee Ray, AP

## tTUNES

## ON THIRD ALBUM, FOSTER THE PEOPLE FINDS THE RIGHT MIX

AP PHOTO



Foster the People, "Sacred Hearts Club" (Columbia)

It hasn't always been easy to be Foster the People. Making sophisticated pop with thoughtful lyrics in danceable, candy-coated hooks is like being a character actor trapped in a leading man's body. If that's the case, then Foster the People resemble Brad Pitt on their third studio album.

"Sacred Hearts Club" gets the delicate mix right, getting progressively more complex as you go through the album, delivering pure shimmering pop like "Pay the Man" and "Sit Next to Me" at the beginning, and ending with a glimpse of the L.A.-based band's ambition in such complex, thrilling songs as "Loyal Like Sid & Nancy" and "Harden the Paint."

Led by lead singer, guitarist and keyboardist Mark Foster, the band has undergone changes since it created hits like "Pumped Up Kicks" and "Houdini." The trio is now a quartet, with multi-instrumentalist Isom Innis also helping produce.

On the 12-track "Sacred Hearts Club" — two

cuts are interludes — Foster the People get help from "The Hunger Games" actress Jena Malone on the airy "Static Space Lover" and OneRepublic's Ryan Tedder on the catchy first single, "Doing It for the Money." Lyrically, the band ranges from the obscure to the simple. "Calling all the poets into battle I am," sings Foster. How many pop records use the Arabic phrase "Inshallah" ("God willing")? How many sing about Satan as he "realigns his face-lift"? Equally, when was the last time you heard emotion as straight-forward as "I just wanna say that I love you"?

Making ambitious pop isn't easy — just ask Phoenix or Glass Animals — but "Sacred Hearts Club" is way more musically consistent than Foster the People's last offering, the complex ultimately unsatisfying "Supermodel" in 2014. This time, the band pairs joyous melodies with thought-provoking content in ever-increasing complexity and lets you find your sweet spot. But here's the thing: You will find it.

Mark Kennedy, AP Entertainment Writer



## TRAVELOG

Lynn Dombek, AP

AP PHOTO



The West Highland Way, Scotland's oldest long distance path



Doune, which lies shortly past Loch Lomond

# Forests, moors, peat bogs: A week of walking in Scotland

Scotland has more than two dozen official long-distance trails through moors, peat bogs and forests. We chose one of the most popular, the West Highland Way.

As first-time walkers in Scotland, my companion and I used a travel company to plan our route, book accommodations and arrange baggage transfers. But we met others who used baggage services and booked their own lodging, along with folks who camped out.

Like the wildly variable Scotland landscape, there's no end of ways to enjoy the walks.

Walkers we met were a disparate bunch: young Swiss backpackers; mountaineers from Virginia; a Swedish mother with teenage daughters; a Scottish couple, world travelers but out to see more of their own country; an extended family from England ages 16 to 50; and a Louisiana couple celebrating their 50th wedding anniversary. We were mid-50s professionals out for adventure.

We took lots of walks at home to get ready. Knowing June could be rainy and cold, we tested gear beforehand. Our essentials were good boots, breathable rain jackets, rain pants or shorts, and wool or suitable base

layers (no cotton!).

A runner recently set a record walking the West Highland way in under 14 hours. We did the standard itinerary: 150 km in seven days.

### THE DAILY ITINERARY

#### Day One: Milngavie to Drymen, 19 km

Our first, lovely day transitions from Milngavie, a small town north of Glasgow, into a pastoral landscape dotted with sheep and cows, mossy stone walls and livestock gates. The peaceful walking is on mostly well-worn trails and roads. We stop into Glengoyne distillery for a wee dram, then on to Drymen. We eat that night at the Clachan Inn, licensed in 1734, seated next to a couple who reappear on Day Three to save us in an uncertain moment. We're soundly asleep by 8 p.m.

#### Day Two: Drymen to Rowardennan, 22.5 km

It's pouring rain through moors and forests, then up and steeply down Conic Hill on the boundary fault separating lowland Scotland from the highlands. In good weather it has glorious views of Loch Lomond (loch

means lake). We lunch in Balmaha, a popular resort town, and continue on the rocky lakeshore path toward the Rowardennan Hotel, a rustic lodge. The pub, with its corner fireplace, serves as both restaurant and meeting place for walkers. We exchange stories, and stumble off to bed.

Like the wildly variable Scotland landscape, there's no end of ways to enjoy the walks.

#### Day Three: Rowardennan to Inverarnan, 22.5 km

It's overcast but no rain. We're now firmly in Rob Roy country (he's an 18th century highlands folk hero). We're still on the loch's shore where the path is a challenging mix of roots and boulders. Guidebooks describe it

as "torturous," despite extraordinary ferns, waterfalls and forests. Six hours in, we convince ourselves a turn was missed and wearily head back. Then the Day One couple appears. The man pulls out his GPS to show we're on track. I sheepishly pocket my map and we're on our way. We share dinner with our new Scottish friends, Stephen and Jane McNaughton, at the Drovers Inn, established in 1705.

#### Day Four: Inverarnan to Tyndrum, 21.25 km

We hit old military trails as yesterday's rigors are forgotten. The rain is back, as are the sheep. We move from farmlands to a thickly wooded conifer plantation, and happily eat lunch on a hillside, the mountaintops shrouded in mist. Nearing Tyndrum we walk through heather, bog myrtle and pinewoods. It's a peaceful end to the day, despite having trekked in earshot of busy route A82.

Tyndrum to Kings House, 29.75 km Our longest, favorite day. The path starts on the glen floor, zigzags up through woods and descends through spectacular moorland toward Loch Tulla. A few more miles and

we're out on Rannoch Moor, a landscape of peat bogs and small lakes and sky, surrounded by heather and mountains. We're smitten. The wind is fierce but rain holds off. For most of the day we see no one else, save our Scottish friends. Guidebooks say this point is as far from civilization as any place on the Way. It feels like it.

#### Day Six: Kings House to Kinlochleven, 14.5 km

We start in sunshine near Glencoe, feeling like tiny blips on the massive glen floor surrounded by towering peaks. Soon we're cloaked in heavy mist on the Devil's Staircase, a zig-zag ascent to the Way's highest point at 1,800 feet (550 meters). We again miss views of high peaks as clouds dip lower, but there's a soggy beauty. We sense the enormous presence of the surrounding mountains.

#### Day Seven: Kinlochleven to Fort William, 24 km

Our last day brings excitement, along with torrential rain and wind. By the time we cross the gorgeous but unforgiving expanse of the valley Lairig Mor, we're soaked. Walkers in ponchos and rain gear flutter in the distance as we splash through mud. The peak of Ben Nevis, the United Kingdom's tallest mountain, is obscured by clouds as we make our final descent into Fort William. We feel elated nonetheless, and lucky to have experienced a week of such awesome beauty.

AP PHOTO





## WORLD OF BACCHUS

Jacky I.F. Cheong



COL VETORAZ VALDOBBIADENE  
PROSECCO SUPERIORE D.O.C.G. EXTRA  
DRY 2015

Sourced from steep hillside vineyards, manually harvested, gently pressed and fermented under temperature control, second fermentation in large tanks as per Charmat method, 17g/l of residual sugar. Vivid citrine with bright sunshine reflex, the invigorating nose offers lime, green apple and crushed rock. With abundant acidity, clear minerality and medium-fine mousse, the buoyant palate delivers lemon, pineapple and crushed shells. Medium-full bodied at 11.5 percent, the fruity entry continues through an energetic mid-palate, leading to a minerally finish.



COL VETORAZ VALDOBBIADENE  
PROSECCO SUPERIORE D.O.C.G.  
MILLESIMATO DRY 2015

Sourced from hillside vineyards, manually harvested, gently pressed and fermented under temperature control, second fermentation in large tanks as per Charmat method, 24g/l of residual sugar. Limpid citrine with clear aureolin reflex, the fragrant nose presents Asian pear, white peach and fresh rose. With generous acidity, clean minerality and medium-fine mousse, the vivacious palate delivers quince, pomelo and acacia. Medium-full bodied at 11.5percent, the floral entry persists through a suave mid-palate, leading to a harmonious finish.

The wines were tasted at Bene (www.benemacao.com), the Italian trattoria at Sheraton Grand Macao Hotel, Cotai, in the presence of Mr. Ben Bost (ben.bost@starwoodhotels.com), Beverage Manager of Sheraton Grand Macao Hotel and The St. Regis Macao. Bene recently launched the Food & Wine Mercato, a “deconstructed” and interactive wine dinner concept, where guests can enjoy culinary delights with fine wine while meeting producers and suppliers alike. Veneto was the featured region in the previous month.

## The Ebullient North

For its fame, price, stature and ceremony, Champagne can be overbearing at times, overshadowing other worthy sparkling wines not just in France, e.g. various blanquettes, claires, crémants and mousseux, but also in Italy. Lo Stivale (“the boot”) being arguably the only country in the world where grapevine cultivation and wine production take place in each and every region, sparkling wine is produced across the entire Italia Settentrionale (northern Italy), e.g. Asti from Piemonte, Franciacorta from Lombardia, Trento from Trentino-Alto Adige, Lambrusco from Emilia-Romagna, and Prosecco from both Veneto and Friuli-Venezia Giulia. Curiously, the first Italian sparkling wines produced in the mid-19th century were made per Metodo Classico / Tradizionale (i.e. Méthode Classique / Traditionnelle; since 1994, the term Méthode Champenoise applied to only Champagne wines), but nowadays most Italian sparkling wines are made per Metodo Martinotti (i.e. Méthode Charmat), with the notable exception of Franciacorta, which insists on Metodo Classico (vide supra). The two methods differ from each other at various stages during the production process, but the defining difference lies in second fermentation, which takes place in bottle (Champenoise) as opposed to stainless steel tanks (Charmat).

The name Prosecco refers to three entities: first, the ancient village – now part of the city of Trieste – in Friuli-Venezia Giulia; second, the sparkling wine produced in both Friuli-Venezia Giulia and Veneto; third, a synonym for the white grape variety Glera. Prosecco per se can be

made in four styles: Tranquillo (still), Spumante (fully sparkling), Frizzante (lightly sparkling, often sweeter and less alcoholic) and the rare and time-honoured Col Fondo (essentially a Frizzante with second fermentation in bottle, kick-started by additional grape must as opposed to dosage, i.e. sugar, hence more complex and flavourful). Regardless of Prosecco styles, Glera must constitute at least 85 percent of the final blend, whereas the remainder can be a combination of Bianchetta Trevigiana, Chardonnay, Glera Lunga, Perera, Pinot Bianco / Grigio / Nero and Verdiso. Due to the harmonisation process of EU law, Prosecco and other Italian sparkling wines now share a very similar labelling regime with Champagne when it comes to sweetness level, based on grams of residual sugar per litre, e.g. Extra Brut (<6), Brut (6-12), Extra Dry (12-17) and Dry (17-32). Owing to its generally attractive price tags, Prosecco has been gaining in popularity on the international market over the last two decades, but the dubious title of “poor man’s Champagne” somehow persists, unfairly so. If Valpolicella Ripasso and Amarone della Valpolicella are considered as stylistically different rather than qualitatively superior or inferior, why take a quasi-“caste system” view on sparkling wines? Champagne remains for celebrations and ceremonies, but Prosecco – and other Italian sparkling wines, for that matter – are perfectly fine for casual occasions. The wine world is much more than Grand Cru clarets and burgundies, Super Tuscans and Trockenbeerenauslese.

To be continued...

Jacky I. F. Cheong is a legal professional and columnist. Having spent his formative years in Britain, France and Germany, he regularly comments on wine, fine arts, classical music and opera.

## RESTAURANTS

### CANTONESE



**GRAND IMPERIAL COURT**  
5pm – 12midnight  
T: 8802 2539  
Level 2, MGM MACAU



**IMPERIAL COURT**  
Monday - Friday  
11am - 3pm / 6pm - 11pm  
Saturday, Sunday & Public Holidays  
10am - 3pm / 3pm - 11pm  
T: 8802 2361  
VIP Hotel Lobby, MGM MACAU

**BEIJING KITCHEN**  
Level 1, Grand Hyatt Macau  
Opening Hours  
11:30am – 24:00



**KAM LAI HEEN**  
Grand Lapa, Macau  
956-1110 Avenida da Amizade, 2/F  
T: 8793 3821  
11:00 - 15:00 / 18:00 – 22:00  
(Close on Tuesday)

**SHANGHAI MIN**  
Level 1, The Shops at The Boulevard  
Opening Hours  
11:00 – 15:00; 18:00 – 22:30

### SHANGHAI

**CATALPA GARDEN**  
Mon - Sunday  
11:00 - 15:00 / 17:30 - 23:00  
Hotel Royal, 2-4  
Estrada da Vitoria  
T: 28552222

### FRENCH

**寶雅座**  
**AUX BEAUX ARTS**

**AUX BEAUX ARTS**  
Monday – Friday  
6pm – 12midnight  
Saturday – Sunday  
11am – 12midnight  
T: 8802 2319  
Grande Praça, MGM MACAU

### GLOBAL

**HARD ROCK CAFE**  
Level 2, Hard Rock Hotel  
Opening Hours  
Monday to Sunday : 11:00 - 02:00  
Sunday : 10:00 - 02:00

**CAFÉ BELA VISTA**  
Grand Lapa, Macau  
956-1110 Avenida da Amizade, 2/F  
T: 87933871  
Mon -Thurs  
06:30 – 15:00 / 6:00 – 22:00  
Fri – Sunday  
06:30 – 22:00

**MEZZA9 MACAU**  
Level 3, Grand Hyatt Macau  
Opening Hours  
Dinner: 5:30 – 11:00

**VIDA RICA (RESTAURANT)**  
2/F, Avenida Dr Sun Yat Sen, NAPE  
T: 8805 8918  
Mon - Sunday  
6:30 – 14:30 / 18:00 – 23:00



**MORTON'S OF CHICAGO**  
The Venetian(r) Macao-Resort-Hotel  
Taipa, Macau  
T:853 8117 5000  
mortons.com  
• Bar  
Open daily at 3pm  
• Dining Room  
Monday - Saturday: 13:00 - 23:00  
Sunday: 17:00 - 22:00

## ABA BAR

**ABA BAR**  
5pm – 12midnight  
T: 8802 2319  
Grande Praça, MGM MACAU



**甜點**  
**PASTRY BAR**  
**PASTRY BAR**  
10am – 8pm  
T: 8802 2324  
Level 1, MGM MACAU



**ROSSIO**  
7am – 11pm  
T: 8802 2372  
Grande Praça, MGM MACAU



**SQUARE EIGHT**  
24 hours  
T: 8802 2389  
Level 1, MGM MACAU

### ITALIAN

**LA GONDOLA**  
Mon - Sunday  
11:00am – 11:00pm  
Praia de Cheoc Van, Coloane,  
next to swimming pool  
T: 2888 0156



**PORTOFINO**  
Casino Level1, Shop 1039,  
The Venetian Macao  
TEL: +853 8118 9950



**AFRIKANA**  
Sun to Thu: 04:00pm – 01:00am,  
Fri, Sat and Eves of Public Holidays:  
06:00pm - 03:00am  
Location : AfriKana, Macau Fisherman's  
Wharf  
Telephone Number : (853) 8299 3678

### JAPANESE

**SHINJI BY KANESAKA**  
Level 1, Crown Towers  
Lunch 12:00 - 15:00  
Dinner 18:00 - 23:00  
Closed on  
Tuesday (Lunch and Dinner)  
Wednesday (Lunch)

### ASIAN PACIFIC

**ASIA KITCHEN**  
Level 2, SOHO at City of Dreams  
Opening Hours  
11:00 – 23:00

**GOLDEN PAVILION**  
Level 1, Casino at City of Dreams  
Opening Hours  
24 Hours



**GOLDEN PEACOCK**  
Casino Level1, Shop 1037,  
The Venetian Macao  
TEL: +853 8118 9696  
Monday - Sunday:  
11:00 - 23:00

### PORTUGUESE

**CLUBE MILITAR**  
975 Avenida da Praia Grande  
T: 2871 4000  
12:30 – 15:00 / 19:00 – 23:00

**FERNANDO'S**  
9 Praia de Hac Sa, Coloane  
T: 2888 2264  
12:00 – 21:30

### THAI

**NAAM**  
**THAI RESTAURANT**

**NAAM**  
Grand Lapa, Macau  
956-1110 Avenida da Amizade, The Resort  
T: 8793 4818  
12:00 – 14:30 / 18:30 – 22:30  
(Close on Mondays)

### BARS & PUBS



**38 LOUNGE**  
Altrira Macau,  
Avenida de Kwong Tung, 38/F Taipa  
Sun-Thu: 13:00 – 02:00  
Fri, Sat and Eve of public holiday:  
15:00 – 03:00

**R BAR**  
Level 1, Hard Rock Hotel  
Opening Hours  
Sun to Thu:  
11:00 – 23:00  
Fri & Sat:  
11:00 – 24:00

**THE ST. REGIS BAR**  
Level One, The St. Regis Macao  
Cuisine: Light Fare  
Atmosphere: Multi-Concept Bar  
Setting: Refined, Inviting  
Serving Style: Bar Menu  
Dress Code: Casual  
Hours: 12:00 PM - 1:00 AM; Afternoon Tea:  
2:00PM - 5:30 PM  
Phone: +853 8113 3700  
Email: stregisbar.macao@stregis.com



**D2**  
Macao Fisherman's Wharf  
Edf. New Orleans III  
Macao

**VIDA RICA BAR**  
2/F, Avenida Dr. Sun Yat Sen, NAPE  
T: 8805 8928  
Monday to Thursday: 12:00 – 00:00  
Friday: 12:00 – 01:00  
Saturday: 14:00 – 01:00  
Sunday: 14:00 – 00:00

**VASCO**  
Grand Lapa, Macau  
956-1110 Avenida da Amizade, 2/F  
T: 8793 3831  
Monday to Thursday: 18:30 – 12:00  
Friday to Saturday: 18:00 – 02:00  
Sunday: 18:00 – 24:00



## ENVIRONMENT

Seth Borenstein, AP Washington

## WORLD'S PLASTIC WASTE COULD BURY MANHATTAN 3KM DEEP

Industry has made more than 9.1 billion tons of plastic since 1950 and there's enough left over to bury Manhattan under more than two miles of trash, according to a new cradle-to-grave global study.

Plastics don't break down like other man-made materials, so three-quarters of the stuff ends up as waste in landfills, littered on land and floating in oceans, lakes and rivers, according to the research reported in Wednesday's journal *Science Advances*.

"At the current rate, we are really heading toward a plastic planet," said study lead author Roland Geyer, an industrial ecologist at the University of California, Santa Barbara. "It is something we need to pay attention to."

The plastics boom started after World War II, and now plastics are everywhere. They are used in packaging like plastic bottles and consumer goods like cellphones and refrigerators. They are in pipes and other construction material. They are in cars and clothing, usually as polyester.

## Plastic waste in water has been shown to harm more than 600 species of marine life

Study co-author Jenna Jambeck of the University of Georgia said the world first needs to know how much plastic waste there is worldwide before it can tackle the problem. They calculated that of the 9.1 billion tons made, nearly 7 billion tons are no longer used. Only 9 percent got recycled and another 12 percent was incinerated, leaving 5.5 billion tons of plastic waste on land and in water.

Using the plastics industry own data, Geyer, Jambeck and Kara Lavender Law found that the amount of plastics made and thrown out is accelerating. In 2015, the world created 448 million tons of plastic — more than twice as much as made in 1998.

China makes the most plastic, followed by Europe and North America.

"The growth is astonishing and it doesn't look like it's slowing down soon," Geyer said.

About 35 percent of the plastic

made is for packaging, like water bottles. Geyer said his figures are higher than other calculations because he includes plastics material woven into fibers like polyester clothing, including microfiber material. An official of a U.S. trade group said the plastics industry recognizes the problem and is working to increase recycling and reduce waste.

"Plastics are used because they are efficient, they are cost effective and they do their jobs," said Steve Russell, vice president of plastics for the American Chemistry Council, an industry association that represents manufacturers. "And if we didn't have them, the impact on the environment would be worse."

## At the current rate, we are really heading toward a plastic planet.

ROLAND GEYER  
STUDY LEAD AUTHOR

Using alternatives to plastics for packaging and consumer goods such as glass, paper or aluminum requires more ener-

gy, Russell said.

The world still makes more concrete and steel than plastic, but the big difference is that they stay longer in buildings and cars and degrade better than plastic, Geyer said. Except for what is burned, "all the plastics that we made since 1950 are still with us," he said. "The fact that it becomes waste so quickly and that it's persistent is why it's piling up in the environment," said Chelsea Rochman, a professor of ecology at the University of Toronto. She wasn't part of the study but like other outside experts praised it for thoroughness and accuracy.

"At some point we will run out of room to put it," she said in an email. "Some may argue we already have and now it's found in every nook and cranny of our oceans."

Plastic waste in water has been shown to harm more than 600 species of marine life, said Nancy Wallace, marine debris program director for the U.S. National Oceanic Atmospheric Administration. Whales, sea turtles, dolphins, fish and sea birds are hurt or killed, she said.

"It's a huge amount of material that we're not doing anything about," Wallace said. "We're finding plastics everywhere."

AP PHOTO



Plastic trash is compacted into bales ready for further processing

AP PHOTO



Jenna Jambeck, an environment engineering professor at the University of Georgia

AP PHOTO



Indian rag pickers look for reusable materials at a garbage dump littered with polythene bags in Lucknow



**WHAT'S ON**



**TODAY (JUL 21)**

MACAO CHINESE ORCHESTRA SEASON CLOSING CONCERT

Conductor Pang Ka Pang and the Macao Chinese Orchestra present a beautiful evening of Chinese music in its 2016-2017 season's closing concert Encounter with Chinese Music. Program highlights include "A Moonlight Night on the Spring River, Rain on Banana Leafs and Zhongruan Concerto Blossom, making for a perfect ending to the season.

TIME: 8pm

Venue: Dom Pedro V Theatre, No. 3, St. Augustine's Square

ADMISSION: MOP60, MOP80

ORGANIZER: Macao Chinese Orchestra

ENQUIRIES: (853) 8399 6679

www.icm.gov.mo/ochm



REPRESENTING WOMEN THROUGH MAM COLLECTION - 19TH AND 20TH CENTURIES

The question of the place of women in the art world has been inspiring museums to look back on their collections in order to understand the subject in two perspectives, the first is how are women portrayed in art history and the second is how female artists are present (or not) in the museum collections. This exhibition showcases 70 female portraits including artworks from a Chinese and Western tradition, or artworks that are at the confluence of both traditions. The exhibition is organized in four sections: 'A Western Tradition in Macau - 19th Century', 'Views of Europeans on China - Late 19th Century', 'Calendars and Posters - Early 20th Century' and 'Propaganda - Mid 20th Century'. The works presented are in different media such as oil paintings, drawings, water colors, gouaches, posters, and sculptures, through a multidisciplinary approach. The visitor will be able to see works by artists like George Chinnery, Lam Qua, Thomas B. Watson, Marciano António Baptista and Guan Huinong among others.

TIME: 10am-7pm (Last admission at 6:30pm, closed on Mondays)

UNTIL: December 10, 2017

VENUE: Macau Art Museum

ADMISSION: Free

ORGANIZER: Cultural Affairs Bureau

ENQUIRIES: (853) 8791 9814

www.mam.gov.mo



**TOMORROW (JUL 22)**

MACAU GIANT PANDA PAVILION & PAVILION OF RARE ANIMALS

Two 3-year old red pandas - Luo Luo the male and Tong Tong the female - comfortably ensconced in Seac Pai Van Park courtesy of the Chengdu Research Base of Giant Panda Breeding, are meeting the public in the Pavilion of Rare Animals. Why not take the kids to the Park to see original giant panda residents Kai Kai and Xin Xin and their twin cubs Jian Jian and Kang Kang in the Macau Giant Panda Pavilion

TIME: 10am-5pm, last admission at 4:45pm (Closed on Mondays)

VENUE: Seac Pai Van Park, Av.de Seac Pai Van, Coloane

ADMISSION: MOP10 (Free admission for Pavilion of Rare Animals)

ORGANIZER: Civic and Municipal Affairs Bureau

ENQUIRIES: (853) 2888 0087

www.macaupanda.org.mo



**SUN (JUL 23)**

MACAU TAOIST ORCHESTRA AND ZHEJIANG PROVINCE TAOIST ORCHESTRA

Macau Taoist Orchestra will perform in the Macau and Zhejiang Province Taoist Music Concert, collaborating with the Zhejiang Province Taoist Orchestra. The program covers the different styles of Taoist music pieces originated from Macau and Zhejiang province. Macau Taoist music has been listed as the National Intangible Cultural Legacy since 2011. It is composed of the music styles of "Chen Yi" and "Chun Jen", the two major classical Taoist styles, and merged with the domestic music modes. In addition to these classical Taoist music pieces, Macau Taoist Orchestra will perform the unique pieces of Taoist percussion music in the concert. Zhejiang Province Taoist Orchestra will bring the elegant simplicity and natural grace of "Chun Jen" Taoist music pieces to the audiences. Besides the soft and winding music of "Chun Jen" Taoist mode, they will deliver the smooth and flexible Tai Chi.

TIME: 8pm

VENUE: Macau Cultural Centre Small Auditorium

ADMISSION: Free

ORGANIZER: Macau Taoist Orchestra Association

ENQUIRIES: (853) 2825 9196



**MON (JUL 24)**

CONSTELLATION - WORKS BY NICOLAS DELAROCHE

The exhibition features three series of works by Nicolas Delaroche. The series, "First Seen", made during the artist's residency in China, was initially entitled "A Barbarian in China". Nicolas Delaroche uses the term "barbarian" to describe a foreigner who observes an unknown culture, exploring and capturing the world he saw for the first time. This series of photographs, displayed in the center of the gallery, invites visitors to explore images through telescopes, bringing each visitor to re-enact the artist's creative process. This series features 80 pieces by Delaroche as his observations and study of private collections in Mainland China and Hong Kong, encouraging the public to reflect the meaning of displaying or collecting artworks from a different perspective.

TIME: 10am-9pm (Open on public holidays)

UNTIL: October 8, 2017

VENUE: Tap Seac Gallery

ADMISSION: Free

ORGANIZER: Cultural Affairs Bureau

ENQUIRIES: (853) 8988 4000

www.icm.gov.mo



**TUES (JUL 25)**

18TH MACAU BAND FAIR

The Macau Band Directors Association presents a master recital. The Calefax Reed Quintet from the Netherlands will be performing. The Macau Band Directors Association (MBDA) is a non-profit music association founded in 1996. The association promotes the development of wind music through various activities. The association actively promotes the wind music through activities and performances locally in Macau. MBDA members include wind band conductors, instrumental instructors and students. The association hosts numerous significant wind music activities, culminating in the annual Macau Band Fair, where experienced conductors, soloists and performers demonstrate their skills in concerts or conduct master classes.

TIME: 8pm

VENUE: Dom Pedro V Theatre

ADMISSION: MOP100

ORGANIZER: Macau Band Directors Association

ENQUIRIES: (853) 2825 2825

www.mbda.org.mo





### WED (JUL 26)

SLIDE THE CITY

Slide The City is coming to town for the very first time. In addition to the mind-blowing experience of sliding down a 6-metre high platform, followed by a furious 100-metre long ride on this gigantic water slide, the spectacle also offers great local treats for foodies, classic fairground games, and a jungle gym for the kids. Immerse yourself in a whole day of water activities, whilst relaxing at Macau Fisherman's Wharf.

TIME: 9am-11pm  
UNTIL: July 30, 2017  
VENUE: Macau Fisherman's Wharf  
ADMISSION: MOP230, MOP430  
ORGANIZERS: Seer Entertainment Production Co. Ltd.,  
Pride Entertainment Production Co. Ltd.  
ENQUIRIES: (853) 8299 3300  
[www.fishermanswharf.com.mo](http://www.fishermanswharf.com.mo)



### THURS (JUL 27)

JAO TSUNG-I ACADEMY

Professor Jao Tsung-I - widely honoured as a 'master of Sinology' and 'treasure of the nation.' He established the Department of Chinese Literature and History for the Graduate School of the University of East Asia in Macau in the 1980s. Jao Tsung-I Academy hosts the permanent exhibition Paintings and Calligraphy which he donated, making the professor's works accessible to visitors throughout the year..Built in 1921, this neoclassical edifice was inscribed upon the list of protected heritage sites in Macau in 1984.

TIME: 10am-6pm (Last admission at 5:30pm, closed on Mondays, open on public holidays)  
VENUE: No. 95 C-D, Avenida do Conselheiro Ferreira de Almeida  
ADMISSION: Free  
ORGANIZER: Cultural Affairs Bureau  
ENQUIRIES: (853) 2852 2523; 8399 6699  
[www.ajti.gov.mo](http://www.ajti.gov.mo)

# Sands WEEKEND



## THRILLER LIVE

Until 3 September  
The Parisian Theatre

Back in Macao by popular demand, THRILLER LIVE, which features Michael Jackson's timeless songs and signature dance moves, has been seen by more than four million people in over 30 countries. THRILLER LIVE is a 90-minute, high-energy explosion of pop, rock, soul and disco that takes the audience on a magical audio-visual journey through Michael Jackson's astonishing 45-year musical legacy.

**Tickets: From MOP 180, call reservations +853 2882 8818**  
**Times: 8pm (Tuesday-Friday); 2pm and 8pm (Saturday); 2pm and 6pm (Sunday).**  
**No shows on Monday.**  
[cotaiticketing.com](http://cotaiticketing.com)



## INTRODUCING THE ANYWHERE, ANYPLACE, ANYTIME CARD: THE ICBC SANDS LIFESTYLE MASTERCARD

Sign-Up Now: [www.sandslifestyle.com](http://www.sandslifestyle.com)

Take advantage of our special introductory offer for the new ICBC Sands Lifestyle Mastercard. The card offers great opportunities to earn points everywhere with special bonuses for spending within Sands Resorts Macao. For a limited time only, there is a special welcome offer for retail spending in the first three months:

- Spend MOP5,000 for 2 round-trip Cotai Water Jet tickets
- Spend MOP10,000 to earn MOP500 Sands Resorts Macao dining credit
- Spend MOP25,000 for one complimentary Sands Resorts Macao room night



## SHOP, PLAY & DRIVE AWAY

Win fantastic prizes in our lucky draw competition. Until 6pm on 26 August 2017, shoppers are entitled to redeem one lucky draw ticket for every HKD/MOP500 or above spent purchasing products at Shoppes at Parisian to stand the chance of winning fantastic prizes, with the first prize being a Tesla Model X valued at HKD700,000 (or a cash option of HKD450,000), plus MOP50,000 in Parisian Rewards Dollar. Nine other prizewinners will receive Parisian Rewards Dollars of up to MOP230,000. All Sands Lifestyle Members are eligible to redeem five complimentary lucky draw tickets.

**The Lucky Draw will be held at 7pm, 26 August at Parisian Gaming Tournament Area.**



## CHAMPAGNE AND OYSTER HAPPY HOUR

Every Friday 6pm - 9pm  
Spirito, inside Portofino, Level 1, Shop 1039, The Venetian Macao

Our award winning Portofino restaurant will be once again hosting a weekly Happy Hour, with "buy one get one free" on Moët & Chandon Champagne, and other selected beverages, starting this Friday from 6pm-9pm. Also as part of this promotion we will be offering French oysters for MOP 10/piece (must be consumed as part of this promotion). Please join with friends, family and colleagues this wonderful promotion to start your weekend right. Spirito Lounge is located in a cosy area next to the main dining room of the award-winning Italian trattoria Portofino, one of the signature restaurants at The Venetian Macao.

\*Over-18s only.  
Reservations: +853 8118 9950



澳門金沙度假區

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FOUR SEASONS  
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澳門巴黎人

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H20 1788  
澳門新濠金沙中心酒店

CONRAD  
MACAO, COTAI CENTRAL  
澳門新濠金沙中心康萊德酒店

Sheraton  
Grand  
MACAO HOTEL, COTAI CENTRAL  
澳門新濠金沙中心大酒店



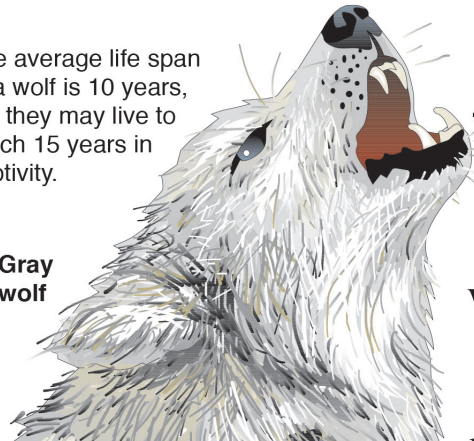
## WORLD OF WONDER

Exploring the realms of history, science, nature and technology

By Laurie Triefeldt

The average life span of a wolf is 10 years, but they may live to reach 15 years in captivity.

Gray wolf



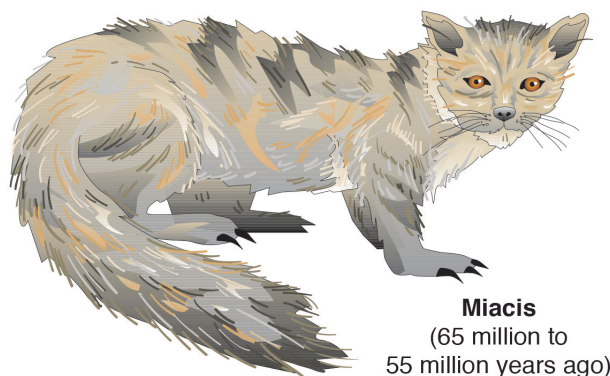
## WOLVES

Wolves are misunderstood animals. They are often blamed for the loss of livestock and have been accused of taking babies and young children as prey. But wolves rarely kill people, and when they do, it is usually by transmitting rabies.



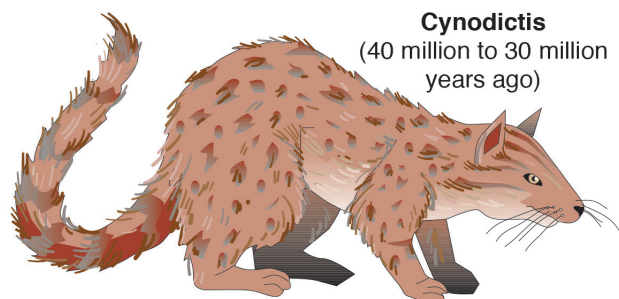
## Great ancestors

Wolves are descended from a carnivorous weasel-like animal called the miacis. The miacis had five toes and could probably climb. Cats, bears, raccoons, civets, weasels and skunks are also descended from this animal.



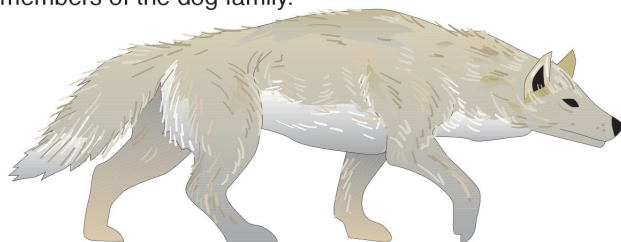
**Miacis**  
(65 million to 55 million years ago)

The next ancestor in the wolf's evolution was **cynodictis**. The cynodictis resembled the civet of today (a living fossil), but had some doglike qualities.



**Cynodictis**  
(40 million to 30 million years ago)

About 23 million years ago, a creature evolved called the **tomarctus**. The tomarctus looked very much like the wolf of today and is the direct ancestor of all members of the dog family.



**Tomarctus**  
(23 million to 16 million years ago)

## Dismal numbers

Wolves were once one of the most plentiful mammals on Earth, but are now listed as endangered. Man is the wolf's main enemy. Habitat destruction and hunting have decimated wolf populations.

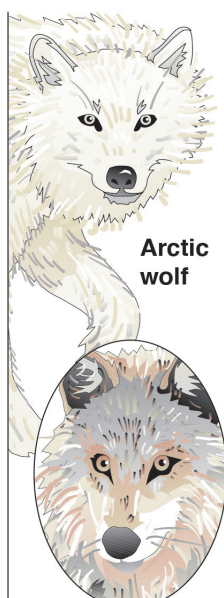
**Estimated worldwide wolf populations:**  
18,000 gray wolves (2016 estimate)  
360-440 Abyssinian wolves (2011 estimate)  
250 red wolves (2015 estimate)

## Taking it in stride

On average, a wolf's paw measures 4 inches (10.16 cm) wide by 5 inches (12.7 cm) long.

Wolves can trot at about 5 mph (7 kph) and sprint at speeds up to 45 mph (70 kph). A wolf's territory depends on food availability.

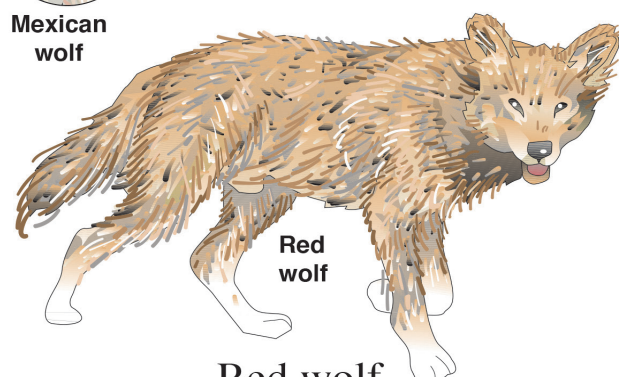
Territories range in size from approximately 50 square miles (130 sq. km) to 1,000 square miles (2,500 sq. km).



Arctic wolf



Mexican wolf



Red wolf

## The gray wolf

The **gray wolf** is also known as the **timber wolf** or the **western wolf**.

There are several subspecies of gray wolves in North America: the Arctic wolf, the Mexican wolf, the eastern wolf, the Great Plains wolf and the Alaskan Interior or Yukon wolf.

The scientific or Latin name for the gray wolf is *Canis lupus*, which means "the dog who is a wolf." Scientists have done more research and written more books on the gray wolf than on any other animal species.

Gray wolves can be found throughout the Northern Hemisphere (generally north of 15 degrees north latitude).



## Family

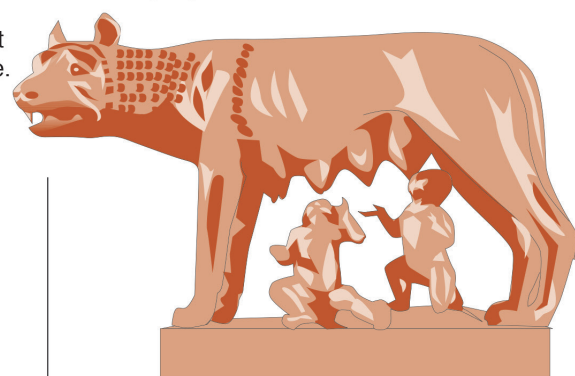
Wolves are social animals that like to live and hunt in packs. A pack is usually made up of a family of wolves (parents and offspring) and rarely numbers more than 10 animals. Within a pack, there is a distinct social hierarchy, and every wolf knows its place.

## On the hunt

Wolves are primarily carnivores, eating mostly meat. They hunt in packs to take down large prey, but they also eat smaller animals. Wolves have been known to scavenge carcasses and will eat insects, nuts and berries. A wolf can go without food for an entire week, but when food is plentiful, it can gorge itself on a meal of up to 22 pounds (10 kg).

## Folklore

The wolf has played a role in the stories and folklore of many cultures. Western fables like "Peter and the Wolf" and "Little Red Riding Hood" portray the wolf as a frightening creature. China has a nasty wolf character called Lon Po Po. But many Native American cultures revered the wolf as a symbol of bravery and loyalty.



According to myth, the founders of Rome, twins Romulus and Remus, were raised by a she-wolf.



A Nordic myth tells of a wolf named Skoll that chases the sun goddess Sol, and a wolf called Hati that chases the moon.

The **red wolf**, also known as the **Florida wolf** or **Mississippi Valley wolf**, once lived throughout the southeastern United States from Pennsylvania to Florida and as far west as Texas. By the mid-1900s, the red wolf populations were so small that the animal was in danger of extinction. Between 1973 and 1980, all known wild red wolves were captured and kept in captivity in an effort to save them. Some populations were reintroduced in North Carolina, and it is estimated that between 50 and 75 wild red wolves can be found there.

## Abyssinian wolf

The **Abyssinian wolf** is also known as the **Ethiopian wolf**, **Simien jackal**, **red jackal** and **Simien fox**.

These wolves are found only in Ethiopia and live primarily on rodents. They will take larger prey if it is injured, very young or very old.

A rabies epidemic in the early 1990s and another in 2003 killed off more than two-thirds of the population. Combined with habitat loss and hunting, this wolf is seriously endangered and is likely to become extinct.



SOURCES: World Book Encyclopedia, World Book Inc.; National Wildlife Federation; New Hampshire PublicTelevision; www.wolfweb.com; www.wolf.org; www.alaska.net; www.wolfsource.org

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