

MARCH 1991

4

Madhur Jaffrey

from MANNA to MICROWAVE

Food Phone-in Four Original Plays Musical Prodigies

## The transmission times of regular programmes given on this page are intended only as a general guide. Some changes will inevitably occur, and readers are asked to check the timing of individual programmes on the Day to Day pages.

### World News (9/5/1 min)

Broadcast daily in the World Service 0200. 0300, 0500, 0700, 0800, 0900, 1100, 1300, 1600, 1700 (ex Sats) 2000; 5-Minute News 1400 (Mons-Fris), 2300 (daily); News Summary 0100, 1000, 1200 (Suns only), 1400 (Sats and Suns only), 1700 (Sats only), 1900, 2100

#### Newsdesk (30 min)

Including World News and despatches from overseas and UK correspondents daily 0000, 0400, 0600, 1800

#### Newshour (60 min)

A comprehensive look at the major topics of the day, plus up-to-the-minute international and British news daily 2200

#### Newsreel (15 min)

News of events as they happen and despatches from BBC correspondents all over the world daily 0215 (South Asia), 1200 (ex Suns), 1500

#### **News About Britain** (5 min)

Daily 0309, 1109, 1609

You can hear more news about Britain in Newsdesk at approx 20 minutes into the programme and on Newshour usually at 40 minutes into the programme.

## Twenty-Four Hours (20/45 min)

Analysis of the main news of the day daily 0509, 0709, 1309

#### British Press Review (5 min)

Survey of editorial opinion in the Press daily 0209, 0909

#### The World Today (15 min)

Examines thoroughly one topical aspect of the international scene Mons-Fris 1645 rep 2009, Tues-Fris 0145 (South Asia). Tues-Sats 0315, 0545, 0915

**Commentary** (5 min) Background to the news from a wide range of specialists Mons-Fris 1709, 2305

#### **Outlook** (25 min)

An up-to-the-minute mix of conversation, controversy and colour from around the world, plus the latest developments here in Britain Mons-Fris 1405, 1901, Tues-Sats 0101

#### Financial News (9/5 min)

Including news of commodity prices and significant moves in currency and stock markets Mons-Sats 0930, Mons-Fris 1925, 2310, Tues-Sats 0125, 0530; brief news Mons-Fris 0625, 0728, 1328, 1825 approx, Tues-Sats 0025, daily in Newshour 2225

#### Financial Review (9 min)

A look back at the financial week Suns 0530 rep 0930

#### Worldbrief (15 min)

A 15-minute roundup of the week's news headlines, plus everything from sport and finance to best-sellers and weather Fris 2315, Sats 0445, 1115

A Jolly Good Show (45 min) Dave Lee Travis presents your record requests

and dedications in his own unique way. Sats 0815 rep 2315, Tues 1515

#### Andy Kershaw's World of Music (15 min)

Mons 0215 rep 0945, 1330, Thurs 0445 Anything Goes (30 min)

A variety of music and much more, with Bob Holness Suns 1430 rep Mons 0330,

#### 0830 Assignment (30 min)

Weekly examination of a topical issue Weds 2030 rep Thurs 0230, 1001, 1615

Book Choice (5 min) Short book reviews with three editions each week Sats 2310 rep Tues 1125, Thurs 0140; Suns 0225 rep Mons 0925, 1455; Suns 0940 rep 1709; 2310

**Business Matters (15 min)** Weekly survey of commercial and financial news Tues 2115 rep Weds 0815, 1445

Country Style (15 min) With David Allan Weds 0145 rep 0445, 1115

Development '91 (30 min) Reflecting aid and development issues Tues 1930 rep Weds 0730, 1330

Discovery (30 min) An in-depth look at scientific research Tues 1001 rep 1830, Weds 0330

Europe's World (15 min) A magazine programme reflecting life in Europe and its links with other parts of the world

Mons 2115 rep Tues 0145, 0445 Focus on Faith (30 min) Comment and discussion on the major issues in the worlds of faith Thurs 1830 rep Fris 0330, 1001

#### From Our Own Correspondent (20 min)

BBC correspondents comment on the back-ground to the news **Sats 2130 rep Suns** 0330, 0730

From the Weeklies (15 min) A review of the British weekly press Sats 0030 rep 0730, 1945

**Global Concerns** (15 min) eeping ahead on environmental issues Thurs 2115 rep Fris 0145, 1115

Health Matters (15 min) Keeping track of new developments in the world of medical science, as well as ways of keeping fit **Mons 0815 rep 1115, 1945,** Weds 0215

Here's Humph! (15 min) All that jazz Fris 1945 rep Sats 0145, 0430, 1001

In Praise of God (30 min) A weekly programme of worship and meditation Suns 1030 rep 1715, Mons 0030 (see page 6)

Jazz for the Asking (30 min) Sats 1830 rep Suns 0630 rep Weds 1030

#### Jazz Now & Then/Folk in Britain (15 min) Jazz one week, folk the next Thurs 1345 rep

Fris 0130, 0445

John Peel (30 min) Selects tracks from newly released albums and singles from the contemporary music scene, Sats 1401 rep Tues 0330, Thurs 0830

#### etter From America (15 min) With Alistair Cooke Sats 1015 rep Suns

0545, 1645, 2315 Megamix (30 min) Compendium of music, sport, fashion, health, travel, news and views for young people **Tues** 0030 rep 1130, 1615

Meridian (30 min) Each week, three topical programmes about the world of the arts **Sats 0630 rep 1130**,

ALL TIMES GMT

#### 2030; Tues 2030 rep Weds 0630, 1130; Thurs 2030 rep Fris 0630, 1130

#### Multitrack (30 min)

1 World Service Top Twenty **Mons 1830 rep** 2330, Tues 1215; 2 New pop records, inter-views, news and competitions **Weds 1830** rep 2330, Thurs 1215; 3 Latest developments on the British contemporary music scene Fris 1830 rep 2330, Sats 1215

#### **Music for a While** with Richard Baker (45 min) Suns 0815 rep 2115, Thurs 1515

Music Review (45 min) News and views from the world of music Thurs 2315 rep Fris 0815, 1515

#### Network UK (15 min)

Looks behind the issues and events that affect the lives of people throughout the UK Mons, Weds, Fris 1930 rep Tues, Thurs, Sats 0215, 0945, 1330

New Ideas (20 min) A weekly look at the world of technology innovation and new products Mons 1615 rep Tues 0730, Weds 1215

ff the Shelf (15 min) Daily readings from the best of world literature Mons-Fris 0430 rep 1430 (see page 11)

Omnibus (30 min) Each week a half-hour programme on almost any topic under the sun **Tues 2130 rep** Weds 0030, 1001

People and Politics (30 min) Background to the British political scene Fris 2130 rep Sats 0230, 1030

Personal View (15 min) Of topical issues in British life Suns 0445 rep 2009, Mons 1345, Tues 0130

Recording of the Week (15 min) A personal choice from the new releases Sats 0045 rep Mons 0545, Weds 2145, **Thurs 1445** 

Science in Action (30 min) Fris 1615 rep 2030, Suns 1001

Seven Seas (15 min) Weekly programme about ships and the sea, with Malcolm Billings Thurs 1930 rep Fris 0215, 0945

ociety Today (15 min) A weekly look at changes in Britain Sats 2009 rep Suns 0315, 0945

orts International (30 min) Mons 2130 rep Tues 0230, 1030

orts Roundup (15/14/9/5 min) Mons-Sats following the 0930 Financial News, 1245; daily 1745, 2101; Suns only 1345

Sportsworld (180 min) Weekly sports magazine Sats 1430, 1515, 1615

The Farming World (15 min) Thurs 0145 rep 0645, 1115, 1945 (see page 8)

The Ken Bruce Show (30 min) Suns 0030 rep 1130, 1830

The Vintage Chart Show (30 min) Past top twenty hits with Paul Burnett Sats 0330 rep Mons 1030, 2030

Waveguide (10 min)

How to hear World Service better Mons 0530 rep Tues 1115, Thurs 0130

Words of Faith (5 min) People of all faiths share how their scripture

gives authority and meaning to their lives **daily** 0540 rep 0809, 2025; Sats, Suns 2305

Write On... (10 min) Air your views about World Service: write to PO Box 76, Bush House, Strand, London WC2B 4PH **Sats 2150 rep Suns 0350, 0750** 

#### DOG WORLD SERVICE



London Calling is the programme journal of the BBC World Service in English. To listen to our worldwide transmissions you will need, in most cases, a short-wave radio set, although in some areas we also broadcast on long and medium wave and FM/VHF. On the frequency pages of this edition you will find a guide to the current recommended transmission and frequency times for your area. We work in Greenwich Mean Time or GMT (which some listeners might know better as UTC) so you will have to convert this to local time.

UNGER," said the 16th century Spanish writer Cervantes, "is the best sauce in the world." Today hunger is a global issue. And the finer points of gastronomy become embarrassingly irrelevant when contrasted with those parts of the world where just to have meat or bread is something to celebrate.

- The industrial world is obsessed by food in all its forms and constantly hungry for new tastes, combinations and refinements. In certain circles it is considered vulgar not to leave a portion of a course uneaten. Food mountains are allowed to accumulate to keep up prices. And well-meaning people who from childhood have taken loaded plates for granted grow uncomfortable when reminded of the contrast with the Third World. "We know," we protest, "but what can we do about it?"
- The glory of good food should not be denied but its unequal distribution leaves a bitter aftertaste. So Food Month on World Service is devoted not so much to groaning boards as to the basics - to staple diets and to the politics of food.
- Central to the theme is a two-part programme called Bread And The Begging Bowl, in which John Pickford highlights the two scourges of glut and hunger with the help of the experts. The programmes are accompanied by a phone-in which gives you the chance to contribute to the debate. Leading food writer and broadcaster Derek Cooper, who chairs the discussion, sets out in stark terms the shape and scale of the problem over the page.
- Indian actress Madhur Jaffrey, pictured on the cover, became well-known in Britain through her television cookery series and books. In From Manna To Microwave this month she travels through Europe, India and the USA to explore different aspects of food - religious, medicinal, commercial and military!
- Other cookery writers, past and present, are the subject of another six-part series, Cooking The Books with Will Cantopher. Teresa Guerreiro takes coffee with sugar: her two-part King Sugar from last year is repeated along with a new programme called Break For Coffee.
- Getting right down to basics is a series of short features called Give Us Our Daily Bread; rather more exotic is a feast of fungi called Mad About Mushrooms. In Japan diners will pay the cost of a whole meal for one slice of the rare Matsutake mushrooms - in that part of Canada where they grow, pickers are apparently shooting each other in feverish bids to supply the demand.
- World Service sets out to put food into proportion this month and indeed every month: nutrition, availability of food its and production are subjects which arise regularly in such programmes as The Farming World, Development '91, Global Concerns and Health Matters.

IN THE MARCH ISSUE:

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#### BBG WORLD SERVICE

# HUNGRY TO BED

'Starvation is the characteristic of some people not having enough to eat. It is not the characteristic of there not being enough food to eat.' DEREK COOPER, who hosts this month's *Food Phone-In*, takes up the theme...

## Food Phone-In

Is the world really short of food? What makes a famine? How important is environmental degradation and the role of war and civil unrest? Do famines never happen in democracies?

Does food aid do more harm than good? Is there a link between overproduction of food in the developed countries and the problem of hunger in the Third World?

**Derek Cooper** introduces a programme which gives you a chance to voice your own reactions to some of the ideas put forward in *Bread And The Begging Bowl (see opposite page).* If you would like to put a question, simply call 071 379 7444 (or 071 379 0411 if you are calling from within the UK).

You can telephone up to 90 minutes before the start of the programme. Your number will be noted and if your question is picked World Service will call you back and put you through to ask it. • Sun 24th 1401, rep (29 min) 2330, Mons 0630, 1001



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O human right is more clearly enshrined in international agreements than the fundamental freedom not to go hungry. In 1974 the superpowers assembled for a World Food Conference and, flown with rhetoric, proclaimed that "within a decade no child will go to bed hungry, no family will fear for its next day's bread".

Today estimates of the number of chronically and severely malnourished people in the world range from the UN Food and Agriculture Organisation's conservative 500 million to the World Bank's one billion. Not only has the problem not gone away but it has been compounded by the inability of official agencies to address the political issues which nourish the roots of hunger.

Despite the fact that for the past decade the FAO has promoted an annual World Food Day to draw the world's attention to its failure to feed the hungry, the world remains preoccupied with other matters. In 1991 many of the questions raised at that 1974 conference are still unanswered.

The FAO has admitted that there is no shortage of food in the world. The prodigious surpluses produced by western countries demonstrate, if demonstration were needed,

that agri-technology can achieve miracles of over-production if there is enough financial incentive. In the short term intensive farming, with all the attendant depletion of the earth's mineral and fossil fuel resources and the frequently irreversible damage to the environment, could fill empty bellies from **Bangladesh** to Ethiopia. But that is surely not the way ahead.

When the distinguished Indian economist Amartya Sen researched the causes which contribute to famines, he came to the conclusion that "starvation is the characteristic of some people not having enough to eat. It is not the characteristic of there not being enough food to eat". Although famines and television food aid marathons make the headlines, the attention bestowed on them by the media conceals far more dramatic realities.

We have created a world in which the responsibility for implementing the thoroughly worthy aims of the United Nations no longer appears to have any political or moral urgency. Although we pay lip-service to the brotherhood of man, the right of all to eat, nothing much is being done about it.

The pressures on the poor countries of the world to conform to the West's idea of what constitutes the best solution to their problems frequently produces compromises which only make matters worse. High inputs of chemical fertilisers, hi-tech intensive farming systems, the growing of cash crops to pay for foreign imports are well attested recipes for disaster. And yet this treadmill of misery revolves without any hope of release.

Today the State more often than not protects the rights of property against the right to eat. Food aid inevitably sabotages the infrastructure which would enable people to feed themselves. It is a prescription for starvation applied from without; not a cure which would remove the causes of hunger and poverty.

A world system which encourages overweight and obesity in the rich countries and malnutrition in the "developing" countries is demonstrably inadequate. It has been estimated that the Third World imports some \$25 billion of armaments from the well-fed industrialised countries every year. The interest which the poor countries are paying the rich for their "development projects" and their military hardware is a burden which in many cases has strangled the will to create a society which could be self-supporting.

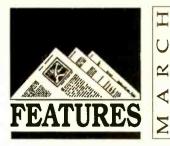
Western science and western economic theories have failed to feed the hungry. Off-theshelf technology has been seen to fail in so many instances that you might think intelligent people would have lost faith in it. But that is not the case. If transplanted western solutions do not work in African or Asian contexts the blame is all too often put down to the inadequacy of the receiving society - lack of literacy, bad climate, fecklessness, poor soil but never the folly of exporting inappropriate farming systems to environments in which they could not have the slightest hope of success.

It is difficult to resist coming to the conclusion that answers to world hunger are not being sought with the energy that the crisis demands because those solutions would challenge the prerogative of the rich nations of the world to order the destiny of the poor nations.

But there is hope ahead. More and more people in the West are coming to see that they can not go on consuming massive amounts of food while others starve. All it needs is a concerted political shove and we may well achieve that grand dream of 1974... "no child will go to bed hungry, no family will fear for its next day's bread".



• Derek Cooper worked as a journalist and broadcaster in South-east Asia between 1950 and 1960 and has for the past 11 years written and presented BBC Radio 4's awardwinning Food Programme. He is president of the Guild of Food Writers and has won numerous awards for his long fight to raise the level of debate about world food problems.



#### As We Forgive (5 x 15 min)

Is it ever possible to forgive people who have been responsible for acts of violence against you or those you love?

John Newbury presents As We Forgive. which tells the stories of individuals within and outside the Christian community involved in violent incidents that have affected their lives forever.

They have had to confront the dilemma of whether it is possible, or even desirable, to forgive the perpetrators of their suffering. Mons until 18th 2315 rep Weds 1515, Thurs 0630

#### **Backing The Canvas** (6 x 15 min)

Christopher Cook talks to some more of the people who help a painter to achieve greatness.

Paintings are fragile living things. The paint surface "moves" and flakes, canvas deteriorates. The Restorer's task is to keep a picture healthy. Fashions in restoration change, however. The Victorians varnished their old masters with a treacly brown glaze that they felt enhanced the dignity of the picture, while today's restorers strive to fulfil the artist's original intentions. using scholarship as much as aesthetic judgment 1st.

The Curator is usually the loser in the art market lottery because his institution will rarely enjoy sufficient funds to compete with private collectors. However, whatever a curator does buy can effect taste in the market and, particularly in contemporary art. can even help to create a market 8th.

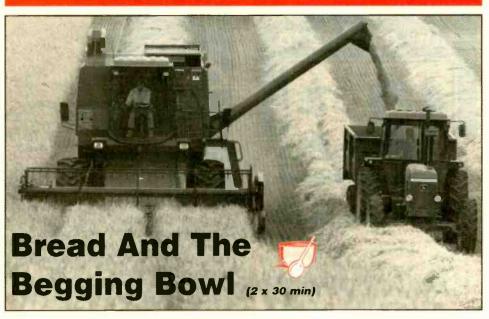
• Fris until 8th 1445 rep Suns 0915, Mons 0445

### **Break for** Coffee (1 x 30 min)

Dark, bitter and richly romantic. coffee is one of the world's favourite drinks. Over the years it has become a central feature of many social rituals: a good hostess is graciously praised for the quality of her after-dinner coffee, served in delicate porcelain cups; the long



Teresa Guerreiro.



Why in the late 20th century are millions of people still losing humanity's most ancient struggle and failing to secure enough to eat? Some, particularly in Africa. have to live with the ever-present threat of famine. Many more around the world face a less dramatic form of hunger, their lives blighted from childhood by chronic under-nourishment.

Meanwhile the richer countries - notably the EC. the USA and Japan - are preoccupied by an increasingly divisive battle to control the gargantuan food mountains created by their own hi-tech, heavily subsidised agriculture.

This world of too much and too little, of bread and the begging bowl, is morally shocking and doubly wasteful of natural resources and human life. But how can the global supply and production of food be better organised? Are there better strategies for famine prevention than those which have been tried - and so often failed - in the recent past?

Professor Amartya Sen is prominent among a younger generation of development economists, bringing radical insights to the debate about how best to eliminate hunger. John Pickford discusses with Professor Sen and other distinguished development experts the twin blights of hunger and glut in Anatomy of Hunger 10th and Anatomy of Plenty 17th. The programmes also report on countries in which successful strategies against famine could provide useful models for adoption elsewhere.

● Suns 10th, 17th 1401 rep 2330, Mons 0630, 1001 ● Food Phone-In, opposite page

sleepless nights of many a jilted lover are filled with tears and cups of black coffee (or so the likes of Ella Fitzgerald tell in their songs): heated political debate is fuelled by equal measures of coffee and idealism around the tables of southern European coffee-houses.

How did coffee plant itself so firmly into our lives? Teresa Guerreiro takes a Break for Coffee and explores its history from its beginnings in Ethopia at the turn of the millenium. through its conquest of the Middle East and Europe and through the Europeans to their colonies in Latin America, Africa and the Caribbean.

She examines the political and economic importance of coffee for its Third World producers; and the perpetual debate on coffee and health.

• Sun 23rd 0230 rep 1615 Mon 0730

#### **Call Me When You're** In Something (1 x 30 min)

It has always been difficult for singers and actors to find work and to establish a career in showbusiness.

Dillie Keane follows the progress of Jacinta Whyte and Michael Winsor from the initial terrifying auditions for a concert to the final performance, which was broadcast live on radio.

There are extracts from singing lessons.

dance sessions and rehearsals.

"The highs are high and the lows are low," says Michael as they describe their aspirations and disappointments: the thrill of entertaining an audience one moment and the frustration at being unemployed the next.

Call Me When You're In Something was Winner of the 1990 Prix Monte Carlo, music category. The producer is David Ravvern Allen.

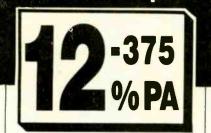
• Sun 10th 0230 rep 1615, Mon 0730

#### Commonwealth **Day Observance** (45 min)

The annual Commonwealth Day Observance is broadcast live from Westminster Abbey in the presence of the Head of the Commonwealth. Her Majesty the Queen. For the first time. Commonwealth Day has a theme. "Science in the Commonwealth". This is reflected in readings from the scriptures of the major faiths, including the Hebrew and Christian Bible, the Qur'an, the Upanishads and the Discourse of the Buddha.

Representatives of all 50 Commonwealth countries attend the Observance. This includes the newest member. Namibia, welcomed into the Commonwealth after gaining independence in 1990. Mon 11th 1515-1600

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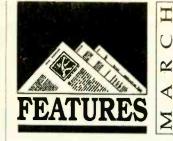
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#### DOG WORLD SERVICE



#### **Cooking The** Books (6 x 15 min)

From the time the first articulate caveman described a particularly tender boar he had eaten. mankind has loved talking about food. When printing came along, a whole genre of writing developed, devoted entirely to gastronomy.

Will Cantopher samples the mouthwatering writings of classic food writers: the 18th century philospher Brillat-Savarin, whose witty guide to the pleasures of the table Physiology of Taste made him a household name in his native France 11th and the good-humoured Italian Fillipo Tommaso Marinetti 18th.

Also featured are leading US food writer M F K Fisher and, most influential of all in Britain, Elizabeth David,

 Mons from 11th 0315 rep Weds 2315. Thurs 0815

#### **Give Us Our Daily Bread** (5 x 10 min)



Pass the bread, break the bread, spread it, scoop it, dip it and dunk it. "Bread and butter" is the foundation of a truly English tea; dhal and chappati a typical meal of the Indian Sub-continent.

What particular pleasures does bread offer? What secrets are concealed within its traditions? Novelist Paul Bailey seeks out the stories of bakers's ovens around the world and discovers the rituals that accompany the eating of this universal food. Mons until 25th 1635 rep Tues 0750, Weds 1235

#### **Growing Points In Medicine** (8 x 15 min)

Preventing paralysis after spinal injury. the latest work on a vaccine for AIDS and the use of gene therapy in the treatment of cancer and heart disease - three areas of medical research which are covered in this new series of interviews

Stephen Hedges talks to doctors and scientists involved in the latest projects and visits some of the leading medical establishments in the USA, including the world famous National Institute of Health at Bethesda near Washington DC.

Here more than 30 doctors are working flat-out to find new ways of preventing and treating hundreds of medical problems in areas as diverse as ageing and the role of nutrition in fighting cancer.

 Mons from 25th 2315 rep Weds 1515, Thurs 0630

#### In Praise Of God (30 min)

Three of the most significant Sundays in the Christian year are Passion Sunday, which looks ahead to the sufferings of Jesus Christ on Good Friday 17th; Palm Sunday, when his final entry into Jerusalem before the Crucifixion is remembered 24th; and Easter Sunday. which celebrates Christ's resurrection from the grave 31st.

In Praise of God for these Sundays comes from the university and cathedral town of Guildford in Surrey, where two Church of England parishes have combined to create three special services. Emmanuel Church in Stoughton is one of four daughter-churches that have been created over the centuries from the parish of St John's Stoke.

The 11th Century church of St John's provides the setting for the two churches' musicians, singers and congregation to bring their acts of worship. The preachers are Stephen Sizer. Rector of St John's: John Salter. Rural Dean of Guildford and Vicar of Emmanuel; and the Archdeacon of Surrey, John Went.

Suns 1030 rep 1715, Mons 0030

#### From Manna To Microwave (6 x 45 min)

Madhur Jaffrey, the Indian actress, cook, cookery-writer and broadcaster, tackles 8,000 years of food in a series of six programmes. This ambitious project involves travel in India. Europe and the USA to talk to chefs, restaurateurs, historians, food technologists and home cooks.

Food and Religion: Most religions have their dietary rules - Christians eat fish on Friday, Muslims will not touch alcohol, Jews avoid pork and Hindus cow meat, to take a few examples. What lies behind these rules and what is their effect on cookery in various parts of the world? 2nd

Food, Health and Medicine: The idea that certain foods, particularly herbs and spices. can be used to cure illnesses goes back to the ancient Chinese. Greek and Arab civilisations. Some of these ideas have come down to us as folk medicine and generate new interest today among those concerned with healthy eating and natural remedies 9th.

Food, Trade and Empire: Today gigantic container ships or bulk carriers transport food around the world. In ancient times small quantities of expensive goods such as spices were carried vast distances from the East to western Europe. Empires were acquired and fought over to safeguard the supplies of vital commodities 16th.

Food and War: "An army marches on its stomach", according to the old saying. Starving soldiers will not give their best in battle, so food supplies have always been a vital part of planning a campaign. Food technology helps to provide troops with nourishing meals, conveniently packaged. Such innovations quickly spread to civilian

society - instant coffee, for instance 23rd. The producer is Jenny Lo. Sats from 2nd 1901 rep Mons 0101, 1515 (ex 11th)





## Into The Dangerous

#### World (1 x 30 min)

Dee was 18 when she had her first panic attack. That was the beginning of 40 years as an agorophobia-sufferer. Activities that most of us take for granted – going shopping, travelling by bus or train – became impossible for her. Even stepping outside her front door was a major ordeal.

She found little sympathy or understanding from doctors, or from her family and friends. Agoraphobia contributed to the breakdown of her marriage.

Recently Dee took a course of treatment with psychologist **Dr Peter Heyward**. We follow her progress as she takes her first few steps into the dangerous world with Dr Heyward at her side – a shopping trip and a ride in the car. But will she be able to achieve her ultimate ambition – her first train journey to London for 20 years?

The producer is Fran Acheson.

Sun 3rd 1401 rep 2330, Mon 0630, 1001

## King Sugar

**Teresa Guerreiro**, who can also be found on *page 5* tracing the story of coffee, is heard in this repeated two-part programme on that popular accompaniment to coffee, sugar.

In developing countries sugar is a basic necessity. In the developed world it is a propensity, the crowning glory of a meal, a comforter. It is also a term of endearment. Whole economies depended on sugar – some, like Cuba's, still do. In fact the social structure of some countries, particularly in the Caribbean, has been determined by the demands of sugar production.

Yet, for such a highly-valued commodity, sugar now fetches relatively modest prices in the international markets. Despite the world's seemingly inexhaustible appetite for sugar, there is now over-production worldwide, with beet-sugar and cornsyrup produced by developed countries competing with the Third World's canesugar.

Teresa finds out about past and present patterns of sugar production and consumption in Cuba and Jamaica. She examines the importance of sugar in today's socleties and considers the vexed question: "Is sugar really bad for your health?"

 Thurs from 28th 2130 rep Fri 0730, 1215



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#### The Jews of **Eastern Europe** (2 x 30 min)

The collapse of the atheist regimes in eastern Europe and the USSR has meant. a rebirth of the Jewish religion. Jews are also playing their part in the new political movements that have grown in the past 18 months. Rob Watson reports.

• Sun 2nd 0230 rep 1615 Mon 0730

#### **About Mushrooms** 20

x 30 min)

In the far north-west of Canada, people are shooting each other over the right to pick rare Matsutake mushrooms, so prized by Japanese diners that for

just one slice they will pay the cost of a whole meal. In continental Europe they call it mushroom madness. During the right season you can see hunters of these elusive organisms everywhere, bent at the waist,

searching through fields and under trees for succulent ceps or fragrant chanterelles. Not in Britain, though.

Like several other northern nationalities. the British have a phobia about any mushroom not bought in a supermarket.



This fear is rooted perhaps in the fact that some fungi live off decaying vegetation, while others, like the aptlynamed Destroying Angel, can inflict a slow and painful death after only a mouthful

What is it about the grubby truffle that drives regions of France and Italy into a collective frenzy? Why do some of the world's finest chefs weep with ecstasy at the sight of a box of wild mushrooms in their kitchens? Careless of the risk of mushroom madness, Jonathan Head tries to find out. • Sun 17th 0230 rep 1615, Mon 0730

#### **Stone's America** (6 x 30 min)

Leslie Stone continues his voyage around America. He visits Atlanta, home to more black millionaires than any other city in the world 6th. He finds out about poverty and the strong charitable impulse that runs through US society 13th and reports that the reputation of Texas as a cultural wilderness is ill-founded 20th.

In the final programme Leslie, a lifelong baseball fanatic, sets out to explain the magic of the game 27th.

 Weds until 27th 0230 rep 1715. Thurs 0730

#### **The Farming World** (15 min)

Food, its production and distribution, is a crucial issue.

Who grows the food and how much; where is it grown; who eats it and at what cost aresome of the questions The Farming World asks this month.

Thurs 0145 rep 0645, 1115, 1945

The **Peoples of** South Africa (5 x 15 min)

Too often South Africa is seen purely in terms of politics, but what is it like for ordinary people carrying on their everyday activities shopping, going to the beach, or simply enjoying themselves? Martin Plaut talks to three black and two white families across the political and ethnic divide in South Africa about their lives

• Fris from 15th 1445 rep Suns 0915, Mons 0445

#### **The Reith** Lectures (7 x 30 min)

Dr Jonathan Sacks, Chief Rabbi-elect of the United Hebrew Congregations of the Commonwealth, concludes his talks on The Persistence of Faith. In the

fourth. Paradoxes of Pluralism, he considers cultural pluralism. If all religious and moral beliefs are held to be of equal worth, public policy can only be neutral, adjudicating between conflicting claims. But in the absence of a unifying public culture, what holds society together? 7th.

Recently there has been a disturbing rise in fundamentalism. Fanaticism, argues Dr Sacks, is no necessary part of religious conviction 14th.

Finally in A Community of Communities. Dr Sacks considers religion's special power of creating communities and giving meaning to life. The story of religion, he says, has hardly yet begun 21st.

• Thurs until 21st 2130 rep Fris 0730, 1215

#### They Made Our World (26 x 10 min)

John Newell examines the lives of the scientists and technologists who shaped our modern world.

The Wright brothers. Orville and Wilbur, were once bicycle manufacturers who

## Seeing Stars ★

#### (15 min)

Astronomers Heather Couper and Nigel Henbest explain why navigators look at the Pole stars:

This month sees the annual changeover of the seasons, as the northern parts of the earth begin to emerge from winter into the promise of spring, while the southern hemisphere starts to descend into the big chill.

The seasons officially change at 0302 GMT on March 21st - the moment when the sun lies exactly above the Earth's equator. This is the "equinox", the date when day and night are equal everywhere on the globe. The equinox is also a good time to get your compass bearings because the sun then rises due east and sets due west.

We can also use the stars to check on our bearings. Nature has been kind to the northern hemisphere because there happens to be a star lying right over the North Pole. Although all the other stars seem to change their positions during the night, as the earth rotates the pole star always lies due north. Even more helpfully, the two stars at the end of the familiar star pattern, the Plough, point straight at the Pole Star.

People south of the Equator are not so lucky for they cannot see the Pole Star and there is no bright star above the South Pole.

The "southern Pole Star" is a miserably faint specimen known officially as Sigma Octantis and scarcely visible to the naked eye.

The familiar Southern Cross does not always lie due south in the sky, but it can provide a clue for desperate navigators. Follow the long stem of the Cross through the sky to a distance four times the length of the Cross itself and you have come to the south pole of the sky.

Ancient navigators such as the Polynesians who crossed the Pacific out of sight of land had more complex "star compasses" than these, but the Pole Star and the Southern Cross have provided simple directions for generations of Boy Scouts and Girl Guides so that they can find their way home – provided it is not cloudy! \* Sat 2nd 0130 rep 2115, Sun 1115

designed, built and flew the world's first practical powered aeroplane 3rd.

Henry Ford popularised the motor car, revolutionised factory production - and tried to end World War One 10th.

Medical practice and the world of physics were transformed by Wilhelm Röntgen, discoverer of the X-ray 17th.

There would be no World Service without Guglielmo Marconi, inventor (among others) of the wireless 24th.

John Logie Baird was the first man to demonstrate that television was a practical possibility. although his primitive system was soon abandoned 31st.

• Suns 0215 rep Mons 0915, 1445





## A Taste of Soul

If you enjoy a mix of classic soul tracks and music from the current scene, **Robbie** Vincent is your man. • Fris 2115 rep Sats 1730, Suns 0430, Tues 1345

#### **Concert Hall**

(45 min)

Concert Hall is back with a programme of music by Mendelssohn: The Overture to A Midsummer Night's Dream and the lesserknown Symphony No 5 in D (Reformation) **24th**. The month is rounded off with Dvorák's Symphony No 8 in G **31st**. • Suns from 24th 1515 rep Tues 0815, 2315

## **Frank Sinatra**



#### DDD WORLD SERVICE

#### **Composer of the Month**

#### (30 min)



In 1910 Gustav Mahler, concerned about his marriage, went to see psychoanalyst Sigmund Freud.

Freud believed he had discovered the key to Mahler's personality: as a boy, Mahler had once found his parents arguing violently. In tears, he ran out into the street, to hear the sound of a hurdy-gurdy grinding out a song. This mixture of tragedy

and humour was reflected in Mahler's music: in his first symphony. he transformed the children's song Frère Jacques into a funeral dirge.

The suicide of his brother and the death of his daughter affected him profoundly.

In the score of his last completed symphony, the *Ninth*. he wrote anguished messages to his beloved but unfaithful wife Alma.

Mons 0230 rep 1130 Tues 1715

#### (2 x 30 min)

"How can anyone who is the subject of at least six full-length biographies be described as under-appreciated? Surely this is the very last term you would use to describe one of the most famous men of the twentieth century?"

So asks **Dave Gelly**. presenter of this profile of a singer whose fame, he claims, overshadows his achievement. He is perhaps best known for his "wayward lifestyle", epitomised by his most popular song, *My Way*, rather than for being an artist of extreme delicacy and feeling.

Dave Gelly analyses the complex factors which make up Sinatra's style and selects some of his greatest – but underplayed – records.

• Fris from 22nd 0030 rep 1030, 1715

#### International Recital (8 x 45 min)

The live concerts from London's BBC Concert Hall continue with performances by the brilliant young Chinese violinist **Guo Chang** (see Musical Youth, page 18), with pianist **Stephen Goodman** in Beethoven's Sonata in C Minor Op. 30. No 2 and the Carmen Fantasy by Sarasate **3rd**.

An all-Bach recital by Lebanese flautist Wissam Boustany with harpsichordist David Roblou 10th is followed by a concert of music by Mozart (Adagio in B minor), Beethoven (Piano Sonata No. 30 in E, Op 109) and Mendelssohn (Fantasy in F Sharp Minor, Op 78) given by the distinguished Vienna-born pianist Anton Kuerti, now resident in Canada 17th.

Tickets are available at the door, free of charge, on the afternoon of each concert. • Suns until 17th 1515 rep Tues 0815, 2315

#### On the Record (8 x 15 min)

Stephen Johnson continues to explore the booming classical record business and the role of the sound engineer 2nd: the experience of the artist in the studio 9th: the strategies of the marketing manager 16th; the relationship between music and technology 23rd; and the economic realities of the industry 30th.

• Sats 0745 rep Mons 0145, Tues 1445

#### The Story of Western Music (8 x 30 min)

During the Renaissance music became an essential part of a young man's education. Composers wrote for instruments such as the lute and viol and printing brought the latest compositions within the reach of all.

Following a programme devoted to the music of Josquin Desprez **1st**, presenter **Anthony Burton** talks to **Dr Iain Fenlon** of Cambridge University and conductor **Bruno Turner**, about the great 16th century composers of sacred music **8th**.

The last programme of this first series is devoted to England's golden age. with **Dr John Milsom** of Oxford University and lutenist **Anthony Rooley 15th**. • **Fris until 15th 0030 rep 1030, 1715** 

## On Stage

**Richard Skinner** introduces more live rock performances specially recorded for radio. **Hothouse Flowers** are an Irish fivepiece band who have achieved considerable success in the past three years with albums and hit singles in both the UK and USA.

They have been likened to strolling gypsy players, both in their approach to music and appearance: felt hats, baggy shirts and neckerchiefs. But their music is anything but loose. They are as tight a band as any on the rock scene today, with that freedom to improvise that comes only from fine musicianship **5th**.

**The Cure** topped the bill at the 1990 Glastonbury Festival in the West of England. It is a fitting tribute to their popularity that some 100,000 fans from all over the world came to see the performance.

The band is the product of the fertile imagination of enigmatic singer. guitarist and songwriter Robert Smith. one of the most charismatic figures in British rock since the punk years. This excellent Glastonbury performance includes some of the band's '80s hits like *Let's Go To Bed* and *The Walk* plus songs from their 1989 best-selling album DisIntegration 12th.

On to New Orleans and the **Neville Brothers**. Art. Cyril. Aaron and Charles formed the band in 1977 but as individual musiclans they have been playing for much longer. It was not until their 1984 album *Fiyo On The Bayou* that they started to gain a real following. Four years on and a collaboration with top producer Daniel Lanois and keyboard player Brian Eno resulted in the Grammy Award-winning LP Yellow Moon.

The latest album, *Brother's Keeper*, also benefits from star contributions from the likes of Dave Stewart and Bono. With their long experience the Neville Brothers are a polished live act **19th**.

**Bob Geldof**, known the world over for his Band Aid and Live Aid efforts, put together a new musical project in 1990. Having written a collection of songs rooted in Cajun dance music from Louisiana, he assembled a band of top-rated musicians to record an album and perform live.

The resulting album, *The Vegetarians of Love*, is full of Geldof's catchy pop melodies, humour, pathos and sour wit. This concert from London's Town and Country Club catches all of that **26th**. • Tues until 26th 0630 rep Weds 1615, 2115

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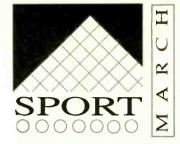
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UROPEAN football features strongly (his month with the three European club competition quarter-finals kicking off **1st**. Highlights include matches from the Champions Cup, the holders AC Milan v Olympique Marseille and an interesting repeat of the 1987 final – Bayern Munich v Porto. In the Cup Winners Cup. English hopes are pinned on Manchester United as they face Montpellier. The return legs for these matches are on the **20th**. Reports and commentary in *Sportsworld* **2101-2200**.

The European Championship for national teams also features a repeat match: the two teams topping group seven, England v Republic of Ireland, who played each other in the 1988 finals, 1990 World Cup finals and who met in the championship qualifiers **27th**.

There is coverage of other group matches including Scotland v Bulgaria, Belgium v Wales and Yugoslavia v Northern Ireland in Sportsworld **2101-2200**.

There should be some exciting cricket as

#### DDD WORLD SERVICE

well. Sri Lanka come to the end of their test series in New Zealand with the third test in Auckland **1st-5th**.

The West Indies begin their tour against Australia with the first test in Jamaica **1st-6th**. The second test is in Guyana **23rd-28th**.

Can Scotland successfully

defend their Rugby <sup>Norion's Com. Iast years</sup> Union Five Nation Championship title? Find out in the final four matches: France are at home to Wales at the Parc des Princes in Paris; Ireland face England in Dublin **2nd**. Then it is England against France at Twickenham and Scotland against Ireland at Murrayfield **16th**. Commentary on both matches in Saturday Sportsworld

The highlight of the Cheltenham racing festival is the Gold Cup. Last year the legendary favourite, Desert Orchid, disappointed many fans by coming home only third behind the surprise winner, Norton's Coin, whose odds were an amazing 100-1. Will this year prove to be as unpredictable and exciting? **14th**. Commentary in Sportsworld **1530**.

Another traditional and, recently, rather predictable sporting event is the University Boat Race which takes place on the River Thames. Can the "dark blues" (Oxford)



Norton's Coin: last year's surprise Cheltenham Gold Cup winner .

beat the "light blues" (Cambridge) for a fifth time? Tide permitting, the oars dip at **1330 30th**.

Other major events this month include: the World Figure Skating Championships in Munich **11th-17th**; the All England Badminton Championships at Wembley **11th-16th**; and the Lipton International Tennis Championships at Key Biscane in Florida **11th-18th**.

With the first classic event of the US golf season, the Masters, drawing near, players on both sides of the Atlantic are hoping to be on form.

Warm-up events include in America the Nestlé Invitational **14th-17th** and the Players Championship **28th-31st**; in Europe the Volvo Firenze in Florence **28th-31st**; and in Majorca the Balearic Open **7th-10th**. Coverage of all these and other sporting events around the world in Sportsworld and Sports Roundup.

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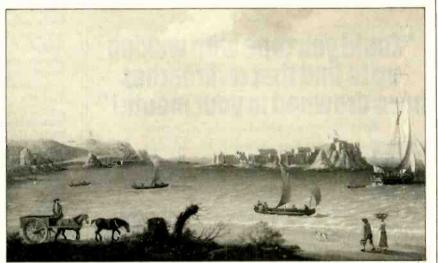
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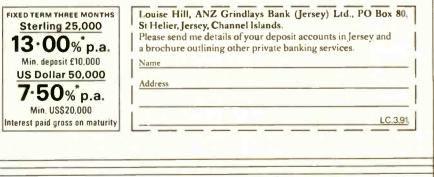
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Elizabeth Castle, Le Mont de la Ville and Old Harbour from Les Mielles, 1764. Dominique Serres (1722-1793) By courtesy of the Jersey Museums Service.



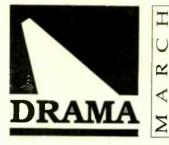
#### DOG WORLD SERVICE psyche. The idea came from a true story told to

student. Roy was wrestling with the problems of

staging it when the World Service commission

came up and he realised that a play for radio

Roy, a teacher of acting, by an American



4 x 60 min

#### was the solution. says. "It was sheer radio and it was original." "Writing a ghost story was a new discipline His new play Affair was inspired by two **OR** G

again.

#### PLAYS OF THE WEEK

#### World Service presents a season of specially commissioned plays... Steve Weinman talks to the writers

Roy Kendall enjoys raising difficult issues. His 1989 play Body And Soul brought forth a particularly enthusiastic response from World Service listeners. Something about this story of an Anglican priest who undergoes a sex change and poses his (or her) bishop a whole series of dilemmas clearly struck a chord. Roy has been working on a stage version set to open in the UK this month.

#### Now he aims to stimulate discussion again with his first "ghost story", Where The Lovemaking Does Go On.

It begins in time-honoured fashion, with a woman inheriting from an aunt a house in which she had lived as a young girl. It had been used as a guest house until the people who ran it were killed in a car crash and while certain aspects strike the woman and her husband as strange when they move in, they know it has no history of haunting. Then the husband is attacked in his sleep, by a little ghost ...

What follows is no ordinary ghost story but a disturbing exploration of the darker areas of the

for me, very exciting and very imaginative," he says. The freeranging style came as a relief from the heavily researched work he had been doing on the stage play An American Grocer, based on the life of Mozart's librettist di Ponti.

Roy trained as an actor and turned to writing and directing in



Roy Kendall.

1966 with work for stage - his first love - and tv. He is not a prolific writer: Where The

Lovemaking Does Go On is his fourth radio play. "When it comes to the process of writing I prefer radio," he says. "There are so few restrictions." He also regards a radio play as durable: more likely to be repeated than a tv play and easier to rework for the stage.

His new work, directed by Gordon House, is a ghost story which looks likely to enjoy just such an afterlife 3rd.

From afterlife to prebirth: Bill Morrison enjoys the unique distinction of having been heard on BBC radio as a foetus. His early life became public property in an unusual way in 1979

> Bill was already well-known as a dramatist when he took part in Spring Of Memory, which was to earn the Best Radio Programme of the Year title - "and the prize of a clock-radio made in Hong Kong". Under hypnotic influence, Bill regressed on air to relive long-suppressed fears as an infant during the Second World War, back further to the traumatic moment of his birth in 1940 and beyond, to the womb and the sound of his own heartbeat.

> "I turned out to be a very good hypnotic subject. I just said: 'Turn on the tape recorder and let's go."" He was later to wonder whether he should have been so nonchalant. "The subconscious is like a deep well and the experience stirred up the sediment. It made me understand the things I was writing a lot better but because of that it made me



reflections on life in his native Northern Ireland. The first is that the community is comparatively small he believes it is the intimacy resulting from so many people knowing one another that keeps it going. The second is that instances of terrorist hostagetaking are increasing. In what he describes

Bill Morrison.

as "a funny, macabre play", Frank arranges for his mistress Donna to visit his home while their respective spouses are elsewhere. He gets back from work early, unaware that two members of the Irish Republican Army have broken in to use his house as an observation post prior to a hostage-taking.

self-conscious." The effect was to steer Bill

was not until 1986 that he took up writing

away from writing and into stage direction. It

"But I was proud of Spring Of Memory," he

When Donna arrives she recognises Martin, one of the men, from college, and the dilemmas start from there. Who is betraying who?

Bill has written many plays about Northern Ireland and "the Troubles" since he gave up acting for playwriting in the late '60s. "They do tend to merge together in my mind now," he says. "But I was extremely flattered to be asked to write this play. It was interesting to work on something that would put Northern Ireland into the context of World Service.

"I hope it goes some way towards showing how complicated the loyalties involved are. The terrorists are not just these hooded creatures but people you went to school with."

Bill is devoting 1991 to work on a theatre group-commissioned "nine-hour epic" on the history of Northern Ireland, seen through the eyes of ordinary people.

Affair is directed by David Hitchinson 10th. "It was beautiful. About twenty delicate blossoms on a long spike. The palest green with freckles and hearts the colour of a hummingbird's throat. He explained everything to me. About the watering and the feeding. But I didn't take it in. There's so much in life you don't see, don't pay attention to until so very much later.'

Notes From The Orchid Farm by

David James was the runner-up in the 1989 World Service Drama Competition and gets its first airing as part of this season of original plays. It is David's own story, a compassionate account of "the importance of friends and how it feels to lose friends through death", of a boy from rural Ohio who yearns for male friendship and finds it in the art world of New York City in the '70s, only to lose it again in the '80s - to AIDS

David is a costume designer for stage, film and tv and has been writing plays for some years, winning awards for Parlour Games in 1984 and A Fat Pink Cloud in 1988, but Notes was his first attempt at writing for radio.

Its success in the World Service competition has, he says, raised his self-esteem as a writer and he regards it as an important stepping-stone towards his goal of writing full-time.

There is little radio drama tradition in the

## "Could you cope with waking up to find that cockroaches have drowned in your mouth?"

Danny de Souza, who spent 12 years in a Turkish prison

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David James.

Stephen Dunstone.

States. "The rules of the competition were very free," says David. "Writing for radio gave me a wonderful chance to use my imagination and to let the audience use *its* imagination."

He would welcome the chance to do more work for the medium and is considering the possibility of making London his home in the near future, but at the moment is busy collaborating on the writing of a three-act ballet version of *The Adventures Of Tom Sawyer* for production in 1992. Gordon House directs *Notes From The Orchid Farm* **17th**.

If **Stephen Dunstone** were superstitious, he might have suspected divine retribution when, in the course of our conversation, he found himself ankle-deep in water. Both the hot water system and the roof of his study had sprung leaks. The front door, recently replaced because of water damage, was once again in danger, because the downstairs lavatory had just come out in sympathy with the rest of his plumbing. Stephen was halfway through writing his play, a reworking of the Biblical story of The Flood.

Under The Rainbow, once again directed by Gordon House, posits another side to the story of how Noah, his family and representatives of the animal kingdom escaped the deluge in the Ark.

Many surprises are in store, not least the identity of the play's narrator. "There are some serious ideas but it is appearing more and more as, if not a comedy, a humorous play."

Turning the familiar on its head is a speciality of Stephen's. "I've always been inspired by the stories which have become deeply embedded and taken for granted. I want to find out what happens if we look at them from a different point of view."

Stephen was a teacher of German and struggling for recognition as a writer when he won the BBC *Radio Times* Drama Award in 1983 for *Who is Sylvia?* "I'm still struggling, but not so much for recognition," he says.

Last year's double-bill of half-hour monologues, God's First Draft and Forgiveness, was well-received on World Service. Stephen still teaches in his spare time – flute and harp – but radio drama is his mainspring and he works naostly to commission, no stranger to the discipline of deadlines.

"The only drawback with commissions is that you & an find yourself restricted to the idea you have suggested in outline rather than letting your intragination explore new directions." For Under the Rainbow he says he was given much freer rein than normal.

Unmoved by fear of drowning in his own study, Stephen regards as an advantage the fact that his window is set high in the wall. "It's rather like a monastic cell," he says, and this helps his concentration; in previous homes he would spend' too long gazing out of the window at the rural scene and passing wildlife.

Even now, he says, he finds the urge to put down the pen and play trains with his two-yearold son almost irresistible.

Gordon House directs Under The Rainbow 24th Suns 0101 rep 1201, 1901

#### 15 min

#### OFF THE SHELF

#### The Life and Adventures of Private Ivan Chonkin

Ivan Chonkin, a "short, bow-legged private" in the Red Army during the Second World War, is sent to the village of Krasnoye to guard a military plane which has crashed. According to the regulations, "a sentry is forbidden to eat, drink, smoke, laugh, sing or talk". He is supposed to stand by the plane for a week.

But Chonkin breaks the rules immediately by moving in with Hyura, a local woman, and he holds a complete regiment at bay when they attempt to arrest him for desertion. The local Communist Party officials and his army superiors are thrown into confusion. Written by Vladlmir Voinovich and translated by Richard Lourie **5th-19th**.

#### **Holy Week Stories**

Saints Matthew, Mark, Luke and John tell the story of Holy Week in their gospels. Sara Maitland provides a modern account of some of the events of that momentous week:

Market Day: The old woman returns from market, terrified of what her husband will say about her losing all the pigeons she was supposed to sell. Read by **Wendy Richard 25th**. Mother Of Freedom: Preaching in the temple in Jerusalem has already caused a riot –

Peter tells Mary that he fears for her son's safety. With Hannah Gordon 26th.

Martha's List: Martha is cross. As usual, she has been left to arrange the Passover meal - but this year, for some reason, it has to be held in Jerusalem. Read by **Polly March 27th**.



The Last Supper: see Martha's List.

Claudia Procula Writes A Letter: Jerusalem is tense – trouble is expected from the strange young man from the north. In Claudia's opinion, her husband Pontius Pilate should wash his hands of the whole business. **Penelope Keith** is the reader **28th** 

Mary Of Magdala: Mary, witnessing the Crucifixion, unpins her hair and lets it fall down her back. By this gesture she can share the humiliation of her friend on the cross. Read by Miriam Margoyles 29th. Producer Caroline Donne. • Mons-Fris 0430 rep 1430

## Not As Far As Velma



The setting is a small French town. **Keith Barron** (*left*) plays Commissaire Henri Castang of the Police Judiciare, a man with a baffling case on his hands. Ada Sergent, proprietress of a

proprietress of a small hotel, has disappeared. She is a middle-aged widow and, say her friends, would not go off with-

out telling anyone.

The only clue is the hotel register. All the names it contained on the night Ada vanished were regulars – all but one. Paul Marklake, an elderly Jewish artist who fled to France from Poland at the outbreak of World War Two, was at home in Paris on the night in question, so why should someone else use his name?

Before Castang can answer this question a bomb goes off at the local convent, killing two nuns. It is an apparently inexplicable crime, but it is not long before Castang manages to link it with the disappearance of Ada Sergent.

Not As Far As Velma, by Nicholas Freeling, is dramatised by Michael Bakewell and produced by Matthew Walters. • Thurs from 7th 1130 rep 1715, Fri

### 0230

#### Pigs Have Wings (4 x 30 min)

P.G.Wodehouse's story concerns Lord Emsworths beloved prize sow, Empress of Blandings, who is in line to win the Fat Pigs Contest for the third consecutive year at the Shrewsbury agricultural show. But Emsworth's neighbour, Sir Gregory Parsloe, has other ideas.

He enters a rival pig into the contest and in order to give his pig a better chance of victory, he plans to smuggle a slimming drink into the trough used by Empress.

Can the Hon Galahad Threepwood save the day?

Ian Carmichael is Galahad Threepwood and Richard Vernon the eccentric Lord Emsworth.

 Wed from 6th 1530 rep Thurs 0030, 1030

## DAY TO DAY

Special programmes for AFRICA ASIA THE CARIBBEAN THE FALKLANDS

#### SATURDAY

#### March 2 9 16 23 30

0000 Newsdesk 30 From The Weeklies 45 Recording Of The Week

0100 News Summary followed by Outlook 25 Financial News 30 Short Story (ex 2nd & 30th Seeing Stars) 45 Here's Humph! 45 South Asia Survey

0200 World News

09 British Press Review 15 Network UK

30 People And Politics

0300 World News 09 News About Britain

15 The World Today

30 The Vintage Chart Show

African Ne 35 Saturdays Only

0400 Newsdesk

30 Here's Humph! 30 Arts And Africa

45 Worldbrief

0500 World News 09 Twenty-Four Hours 30 Financial News

African News 30 35 Saturdays Only 40 Words Of Faith

45 The World Today

0600 Newsdesk 30 Meridian

- 30 African News
   35 Saturdays Only
- 0700 World News 09 Twenty-Four Hours 30 From The Weeklies

30 African News 35 Saturdays Or ic Onl 45 On The Record)

0800 World News 09 Words Of Faith 15 A Jolly Good Show

0900 World News 09 British Press Review 15 The World Today 30 Financial News followed by Sports Roundup

- 45 Network UK
- 1000 News Summary followed by Here's Humph! 15 Letter From America 30 People And Politics
- 1100 World News 09 News About Britain 15 Worldbrief 30 Meridian

1200 Newsreel 15 Multitrack 3 45 Sports Roundup

1300 World News 09 Twenty-Four Hours 30 Network UK 45 Good Books

1400 News Summary followed by John Peel 30 Sportsworld

1500 Newsreel Arts & Africa 15 Sportsworld contd

14

1600 World News 09 News About Britain 15 Sportsworld contd

1700 News Summary followed by

- Sportsworld contd 09 African New 15 Arts And Africa
- 30 A Taste Of Soul 45 Sports Roundup

1800 Newsdesk 30 Jazz For The Asking 30 Arts And Africa

1900 News Summary followed by From Manna To Microwave 45 From The Weeklies

2000 World News 09 Society Today 25 Words Of Faith 30 Meridian

2100 News Summary followed by Sports Roundup

- 15 Short Story (ex 2nd & 30th Seeing Stars) 30 From Our Own Correspondent
- 50 Write On

2200 Newshour

2300 World News

05 Words Of Faith 10 Book Choice 15 A Jolly Good Show

#### SUNDAY

#### March 3 10 17 24 31

0000 Newsdesk 30 The Ken Bruce Show

0100 News Summary followed by Four Original Plays: 3rd Where The Lovemaking Does Go On; 10th The Affair; 17th Notes From The Orchid Farm; 24th Under The Rainbow

0200 World News 09 British Press Review

- 15 They Made Our World
- 25 Book Choice 30 3rd The Jews Of Eastern Europe; 10th Call Me When You're In Something; 17th Mad About Mushrooms; 24th Break

For Coffee 0300 World News 09 News About Britain 15 Society Today 30 From Our Own Correspondent 30 African News 35 Postmark Africa

50 Write On,

0400 Newsdesk 30 A Taste Of Soul 30 African Perspective

45 Personal View 0500 World News 09 Twenty-Four Hours 30 Financial Review

- 30 African News
   35 Postmark Africa
- 40 Words Of Faith 45 Letter From America

0600 Newsdesk 30 Jazz For The Asking 30 African News 35 Postmark Africa

- 0700 World News
- 09 Twenty-Four Hours 30 From Our Own Correspondent African Perspective
- 50 Write On...

0800 World News 09 Words Of Faith 15 Music For A While With Richard Baker

ALL

TIMES

0900 World News 09 British Press Review

15 Andy Kershaw's World Of Music

30 Composer Of The Month

15 Cooking The Books (ex 4th Good Books)

30 Focus On Africa
45 The Peoples of South Africa (ex 4th Backing The Canvas)

09 News About Britain

30 Anything Goes 30 African News

0500 World News 09 Twenty-Four Hours

30 Waveguide 30 African News

35 Network Africa

In 30 African News 35 Network Africa

0700 World News

For Coffee

30 African News

0800 World News

0900 World News

1100 World News

1200 Newsreel

1300 World News

1400 World News

1500 Newsreel

1600 World News

1700 World New 09 Commentary 09 Focus On Alfrica

15 Panel Game

09 Words Of Faith 15 Health Matters

30 Anything Goes

09 British Press Review 15 They Made Our World 25 Book Choice

30 Financial News followed by

Sports Roundup 45 Andy Kershaw's World Of Music

1000 News Summary followed by 4th Into The Dangerous World; 11th, 18th Bread And The Begging Bowl; 25th Food Phone-

30 The Vintage Chart Show

30 Composer Of The Month

15 Ned Sherrin's Counterpoint

09 Twenty-Four Hours 30 Andy Kershaw's World Of Mursic

15 From Manna To Microwave (ex

09 News About Britain 15 Health Matters

45 Sports Roundup

45 Personal View

05 Outlook 30 Off The Shelf 45 They Made Our World 55 Book Choice

11th Commonwealth, Day Observance) ■ 15 Focus On Africa

15 New Ideas 35 Give Us Our Daily Bread 45 The World Torday

09 News About Britain

35 Network Africa

40 Words Of Faith

45 Recording Of The Week

0600 Newsdesk 30 4th Into The Dangerous World; 11th, 18th Bread And The Begging Bowl; 25th Food Phone-

90 Twenty-Four Hours 30 *4th* The Jews Of Eastern Europe; *11th* Call Me When You're In Something; *18th* Mad About Mushrooms; *25th* Break

35 Network Africa

0400 Newsdesk 30 Off The Shelf

0300 World News

- 15 The Peoples Of South Africa 30 Financial Review 40 Book Choice
- 45 Society Today
- 1000 News Summary followed by Science In Action 30 In Praise Of God

1100 World News 09 News About Britain 15 Short Story (ex 3rd Seeing Stars) 30 The Ken Bruce Show

1200 News Summary followed by Four Original Plays: 3rd Where The Lovemaking Does Go On; 10th The Affair; 17th Notes From The Orchid Farm; 24th Under The Rainbow

1300 News And Twenty-Four Hours On Sunday 45 Sports Roundup

- 1400 News Summary followed by 3rd Into The Dangerous World; 10th, 17th Bread And The Begging Bowl; 24th Food Phone-

30 Anything Goes

#### 1500 Newsreel

Perspective 15 International Recital (ex 24th Concert Hall)

- 1600 World News World News
   99 News About Britain
   15 3rd The Jews Of Eastern Europe; 10th Call Me When You're In Something; 17th Mad About Mushrooms; 24th Break For Coffee 45 Letter From America

#### 1700 World News

- 09 Book Choice 09 African News 15 In Praise Of God 15 African Perspective 45 Sports Roundup

1800 Newsdesk

30 The Ken Bruce Show 30 Postmark Africa

1900 News Summary followed by Four Original Plays: 3rd Where The Lovemaking Does Go On; 10thThe Affair; 17th Notes From The Orchid Farm; 24th Under The Deinberg The Rainbow

#### 2000 World News

- 09 Personal View 25 Words Of Faith
- 30 Ned Sherrin's Counterpoint
- 2100 News Summary followed by
  - Sports Roundup 15 Music For A While With Richard Baker

#### 2200 Newshour

#### 2300 World News

- 05 Words Of Faith 10 Book Choice

0000 Newsdesk 30 In Praise Of God

0200 World News 09 British Press Review

GMT

15 Letter From America 30 *3rd* Into The Dangerous World; 10*th*, 17*th*; Bread And The Begging Bowl; 24*th* Food Phone-

#### MONDAY

March 4 11 18 25

0100 News Summary followed by From Manna To Microwave 45 On The Record

#### EEE WORLD SERVICE

## DAY TO DAY

40 African News 45 Sports Roundup 1800 Newsdesk 30 Multitrack 1: Top 20 30 Focus On Africa 55 African News

#### 1900 News Summary followed by

Outlook 25 Financial News 30 Network UK 45 Health Matters

2000 World News 09 The World Today 25 Words Of Faith 30 The Vintage Chart Show

2100 News Summary followed by Sports Roundup 15 Europe's World

hean Renor 30 Sports International

#### 2200 Newshour

2300 World News

05 Commentary 10 Financial News

15 As We Forgive (ex 25th Growing Points In Medicine) 30 Multitrack 1: Top 20

#### TUESDAY

#### March 5 12 19 26

0000 Newsdesk 30 Megamix

0100 News Summary followed by

Outlook 25 Financial News

30 Personal View

45 Europe's World ▲ 45 The World Today

0200 World News 09 British Press Review 15 Network UK

30 Sports International

0300 World News

09 News About Britain 15 The World Today

30 John Peel 30 African News

35 Network Africa

0400 Newsdesi

30 Off The Shelf 30 Focus On Africa 45 Europe's World

0500 World News 09 Twenty-Four Hours 30 Financial News

30 African News 35 Network Africa 40 Words Of Falth 45 The World Today

0600 Newsdesk

30 On Stage 30 African News 35 Network Africa

0700 World News 09 Twenty-Four Hours 30 New Ideas

30 African News 35 Network Africa

50 Give Us Our Daily Bread

0800 World News 09 Words Of Faith 15 International Recital (ex 26th

Concert Hall)

0900 World News 09 British Press Review

- 15 The World Today 30 Financial News followed by
- Sports Roundup 45 Network UK

1000 News Summary followed by Discovery 30 Sports International

1100 World News 09 News About Britain 15 Waveguide 25 Book Choice 30 Megamix

1200 Newsreel 15 Multitrack 1: Top 20 45 Sports Roundup

1300 World News 09 Twenty-Four Hours 30 Network UK 45 A Taste Of Soul

1400 World News 05 Outlook 30 Off The Shelf 45 On The Record

1500 Newsreel 15 A Jolly Good Show 15 Focus On Africa

1600 World News 09 News About Britain 15 Omnibus 45 The World Today

1700 World News 09 Commentary 09 Focus On Africa

15 Composer Of The Month frican 45 Sports Roundup

1800 Newsdesk

30 Discovery 30 Focus On Africa 55 African News

1900 News Summary followed by Outlook 25 Financial News 30 Development '91

2000 World News 09 The World Today

25 Words Of Faith 30 Meridian

2100 News Summary followed by Sports Roundup

15 Business Matters 15 Caribbean Report 30 Omnibus • 30 Calling The Falklands

2200 Newshour

2300 World News 05 Commentary 10 Financial News

15 International Recital (ex 26th Concert Hall)

#### WEDNESDAY

#### March 6 13 20 27

0000 Newsdesk 30 Omnibus

0100 News Summary followed by Outlook 25 Financial News

30 Images Of Britain 45 Country Style 45 The World Today

0200 World News

09 British Press Review 15 Health Matters

30 Stone's America

0300 World News 09 News About Britain 15 The World Today

30 Discovery 30 African News 35 Network Africa

0400 Newsdesk

30 Off The Shelf 30 Focus On Africa 45 Country Style

0500 World News 09 Twenty-Four Hours 30 Financial News

30 African News 35 Network Africa

40 Words Of Faith 45 The World Today

Outlook 0600 Newsdesk ALL TIMES

30 Meridian 30 African News
 35 Network Africa 0700 World News 09 Twenty-Four Hours 30 Development '91 30 African News

25 Financial News

25 Financial News 30 Waveguide 40 Book Choice 45 The Farming World ▲ 45 The World Today

0200 World News 09 British Press Review

30 Ned Sherrin's Counterpoint

45 Andy Kershaw's World Of Music

30 As African News

15 Cooking The Books (ex 7th Good Books)

15 The World Today 30 Financial News followed by

1000 News Summary followed by

Assignment 30 Comedy: Pigs Have Wings (ex 28th Two Cheers For March)

09 News About Britain 15 The Farming World 30 Drama: Not As Far As Velma

09 Twenty-Four Hours 30 Network UK 45 14th, 28th Folk In Britain: 7th, 21st Jazz Now And Then

45 Recording Of The Week

15 Music For A While With Richard Baker

15 Drama: Not As Far As Velma

15

15 Network UK ▲ 15 Newsreel

30 Assignment

0300 World News 09 News About Britain 15 The World Today

30 African News
 35 Network Africa

0400 Newsdesk 30 Off The Shelf 30 Focus On Africa

0500 World News

30 African News
 35 Network Africa

0600 Newsdesk

35 Network Africa

0700 World News

35 Network Africa

0800 World News 09 Words Of Faith

30 John Peel

45 The Farming World

09 Twenty-Four Hours 30 Stone's America 30 African News

0900 World News 09 British Press Review

Sports Roundup

45 Network UK

1100 World News

1200 Newsreel

15 Multitrack 2

1300 World News

1400 World News

1500 Newsreel

05 Outlook 30 Off The Shelf

15 Focus On Africa

09 News About Britain

15 Assignment 45 The World Today

1600 World News

1700 World News

1800 Newsdesk

55 African News

**4**0

09 Commentary 09 Focus On Africa

African News 45 Sports Roundup

30 Focus On Faith 30 Focus On Africa

45 Sports Roundup

09 Twenty-Four Hours 30 Financial News

40 Words Of Faith 45 The World Today

35 Network Africa

0800 World News 09 Words Of Faith 15 Business Matters 30 Panel Game

0900 World News 09 British Press Review 15 The World Today 30 Financial News followed by Sports Roundup 45 Images Of Britain

1000 News Summary followed by Omnibus 30 Jazz For The Asking

1100 World News 09 News About Britain 15 Country Style 30 Meridian

1200 Newsreel 15 New Ideas 35 Give Us Our Daily Bread 45 Sports Roundup

1300 World News 09 Twenty-Four Hours 30 Development '91

1400 World News 05 Outlook 30 Off The Shelf

**45 Business Matters** 

1500 Newsreel 15 As We Forgive (ex 27th Growing Points In Medicine) 15 Focus On Africa

30 Comedy: Pigs have Wings (27th Two Cheers For March)

1600 World News

- 09 News About Britain 15 On Stage
- 45 The World Today

#### 1700 World News

- 09 Commentary 09 Focus On Africa
- 15 Stone's America 40 African News

45 Sports Roundup

1800 Newsdesk

30 Multitrack 2 30 Focus On Africa

55 African News

2000 World News

30 Assignment

2200 Newshour

2300 World News 05 Commentary 10 Financial News

30 Multitrack 2

0000 Newsdesk

Outlook 25 Financial News

30 Network UK 45 Images Of Britain

09 The World Today 25 Words Of Faith

1900 News Summary followed by

2100 News Summary; followed by Sports Roundup 15 On Stage 15 Caribbean Report

45 Recording Of The Week

15 Cooking The Books (ex 6th Good Books)

THURSDAY

March 7 14 21 28

30 Comedy: Pigs Have Wings (ex 28th Two Cheers For March)

0100 News Summary followed by

GMT

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#### DOG WORLD SERVICE

## DAY TO DAY

FRIDAY

March 1 8 15 22 29

0100 News Summary followed by

The Story Of Western Music (ex 22nd, 29th Frank Sinatra)

30 8th, 22nd Folk In Britain; 1st, 15th, 29th Jazz Now And Then 45 Global Concerns 45 The World Today

30 Drama: Not As Far As Velma

45 8th. 22nd Folk In Britain:1st.

15th, 29th Jazz Now And Then

0000 Newsdesk

Outlook

0200 World News

0300 World News 09 News About Britain 15 The World Today

30 Focus On Faith 30 African News

35 Network Africa

0400 Newsdesk 30 Off The Shelf 30 Focus On Africa

0500 World News

35 Network Africa

0600 Newsdesk

30 Meridian

40 Words Of Faith

45 The World Today

AFRICAN NEWS

0530, 0630, 1709

1500, 1715

Mons-Fris: 0330, 0530,

0630, 0730, 1740, 1855;

Sats: 0330, 0530, 0630,

0730, 1709; Suns: 0330,

AFRICAN PERSPECTIVE

Each week, a feature or discussion

analysing a major African issue.

• Suns 0430 rep 0730,

ARTS AND AFRICA

performers from around the

continent . Sats 0430 rep

Musicians, painters and

09 Twenty-Four Hours 30 Financial News 30 African News

15 Seven Seas

09 British Press Review

▲ 45

25 Financial News

30 African News
 35 Network Africa

0700 World News 09 Twenty-Four Hours 30 The Reith Lectures (ex 29th King Sugar) 30 African News

- 35 Network Africa
- 0800 World News 09 Words Of Faith 15 Music Review

#### 0900 World News

09 British Press Review 15 The World Today 30 Financial News followed by Sports Roundup 45 Seven Seas

1000 News Summary followed by Focus On Faith 30 The Story Of Western Music (ex 22nd, 29th Frank Sinatra)

#### 1100 World News

09 News About Britain 15 Global Concerns

- Dateline East Asia
- 30 Meridian ▲ 45 Dateline East Asia

1200 Newsreel 15 The Reith Lectures (ex 29th King Sugar) 45 Sports Roundup

#### 1300 World News

09 Twenty-Four Hours 30 Panel Game

#### 1400 World News

- 05 Outlook 30 Off The Shelf 45 The Peoples Of South Africa (ex 8th Backing The Canvas)

#### ALTERNATIVES

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#### 1500 Newsreel **15 Music Review**

15 Focus On Africa

1600 World News 09 News About Britain 15 Science In Action 45 The World Today

#### 1700 World News

- 09 Commentary
  09 Focus On Africa
  15 The Story Of Western Music (ex 22nd, 29th Frank Sinatra)
  40 African News
  - 45 Sports Roundup

#### 1800 Newsdesk

- 30 Multitrack 3 30 Focus On Africa
- 55 African News

#### 1900 News Summary followed by

Outlook 25 Financial News 30 Network UK 45 Here's Humph!

#### 2000 World News

09 The World Today 25 Words Of Faith 30 Science In Action

#### 2100 News Summary followed by Sports Roundup 15 A Taste Of Soul

- 30 People And Politics 30 Calling The Falkland alling The Falklands

#### 2200 Newshour

#### 2300 World News 05 Commentary

10 Financial News 5 Worldbrief 30 Multitrack 3

#### DATELINE EAST ASIA

A weekly magazine dealing with the political and economic affairs of North-east and South-east Asia • Fris 1115, 1145

#### SOUTH ASIA SURVEY An in-depth analysis of political and

other developments in South Asia Sats 0145

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1500, 1715, 1830

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• Mons-Fris 0335 rep 0435, 0635, 0735

**TUESDAYS-SUNDAYS** as Mondays except:

- to0445
- 0552 Financial News Tues-Sats to 0556
- 1659 Travel News Sats, Suns to 1700
- 1700 As World Service
- 1715 Club 648 Suns to 1730

BBC FOR EUROPE programmes as listed are available for listeners in Greater Berlin on 90.2 MHz FM, except at the following times:

0545-0600	BBC English: language
	lesson
0630-0700	As World Service In English
1115-1130	As World Service in English
	(Sat)
1130-1200	As World Service in English
1715-1745	BBC English: language
	lesson
1745-1830	As World Service in English



1900 News Summary followed by

2100 World News followed by Sports

30 The Reith Lectures (ex 28th King

Outlook 25 Financial News

30 Seven Seas

2000 World News 09 The World Today

Sugar)

2200 Newshour

2300 World News

05 Commentary 10 Financial News

**15 Music Review** 

25 Words Of Faith 30 Meridian

Roundup 15 Global Concerns

45 The Farming World

#### on medium wave 648 kHz

#### MONDAYS

- 0000 As World Service in English 0359 Weather
- 0400 Newsdesk
- 0430 Letter from America
- 0445 News & Press Review In German 0500 German News Magazine
- 0535 News In German; headlines in
- English & French
- 0547 Press Review 0552 The Week Ahead
- 0556 Weather & Travel News
- 0600 As World Service In English
- 0630 French News magazine
- 0659 Weather 0700 As World Service in English
- 1130 French News magazine
- 1159 Travel News
- 1200 As World Service in English
- 1615 BBC English: language lesson
- 1630 German News magazine 1700 As World Service in English
- 1715 The World Today
- 1730 French News magazine
- 1814 News Headlines in English 1815 BBC English: language lesson
- 1830 German News and features
- 1954 News in German 2000 As World Service in English

- 0430 The World Today Tues-Sats
- 0430 Personal View Suns to 0445
- Financial Review Suns to 0556
- 1115 Club 648 Sats to 1130

#### DOG WORLD SERVICE

## **MUSICAL YOUTH**



#### Т

HE word prodigy usually conjures up the image of a musical child and this year especially, it would probably be of Mozart who died 200 years ago, aged 35.

For at least 30 of those years he composed and played an instrument and his earliest pieces are still in widespread use today.

Of course, Mozart was exceptional but in terms of sheer precocity he has not lacked company: Mendelssohn, for instance, began composing at virtually the same age as Mozart. At eight, he could play, by heart, all of the Beethoven symphonies on the piano – except the *Ninth* but that had yet to be written.

By 12 he was writing music which would have distinguished many an adult composer, and by 17 he was creating masterpieces like *The Midsummer Night's Dream Overture* (featured in *Concert Hall, see page 9*).

Camille Saint-Saëns began composing at three and by seven was deep in the analysis (structural, harmonic and melodic) of Mozart's Don Giovanni. At ten, he made his début as a

Twenty-year old Guo Chang (above) is one of the talented musicians featured in this month's International Recital (see page 9). He has been playing the violin since the age of three and performing in concerts to great critical acclaim since he was seven. The head of BBC World Service Music, JEREMY SIEPMANN, discusses why it is that music, more than any other discipline, has such a tradition of child prodigies.

## **EXPATRIATES** Can You Afford To Retire?

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pianist, when he offered to play, as an encore, any of the 32 Beethoven sonatas.

Other childhood wonders include Hummell, Liszt, Chopin, Meyerbeer, Strauss, Britten, Busoni, Korngold. But not all great composers have been prodigies by any means. Bach was not, neither was Wagner nor Berlioz.

On the other hand, most successful performers have been. As well as Guo Chang, many of the the artists appearing in this year's *International Recital* were prodigies. Michael Roll was playing Schubert dances aged five and the Schumann Concerto at the Royal Festival Hall when he was 12.

Anton Kuerti caused a sensation with the Grieg Piano Concerto at the age of 11. Other players who have enjoyed international reputations before reaching their teens are Sura Cherkassky, Isaac Stern and Yehudi Menuhin, (numbered among the great interpreters of the Beethoven Violin Concerto when he was ten).

The pianist Mieczyslaw Horszowski made his début at five and he still enjoys the concert platform – in his 99th year!

Among the younger generation are Lorin Maazel, Daniel Barenboim, Anne-Sophie Mutter and Peter Serkin to name but a few.

At least as numerous, however, are prodigies who have failed to mature into great or even distinguished musicians.

Too often these have been the hapless victims of parental ambition, forced into exceptional accomplishments by mental and sometimes physical cruelty.

Others were the casualties of social prejudice. Fanny and Anna-Maria, the sisters of Mendelssohn and Mozart respectively, were remarkable prodigies but at a time when it was thought unseemly for respectable young women to be professional musicians. So much so that several of Fanny's compositions were published under her brother's name.

Perhaps the most extraordinary thing about these musical prodigies is that one looks almost in vain for their equivalents in any other discipline – with the possible exception of mathematics, which has many affinities with music.

The French theologian and scientist Blaise Pascal (1623-1662) secretly devised a geometry of his own aged 11. The American mathematician Norbert Wiener was widely read in science and literature at five and entered university six years later. And the game of chess has thrown up a number of talented prodigies.

But where are their counterparts in the realms of literature, painting and the theatre? True, the great German artist Albrecht Dürer was painting creditable self-portraits at 13, but by musical standards that is already getting elderly.

Why should music, the writing and playing of which are among the most contrived and unnatural of human achievements, be so singularly favoured with childhood geniuses?

I can't pretend to know the answer, and if there is one it would require more space.

Let us simply be grateful that few, if any, of our musical children have matched the career of the 18th century German, Christian Heinecken.

Fluent in Latin and French at the age of three, and with a proven knowledge of history, geography and biblical studies, young Master Heinecken breathed his last in 1725, at the imposing age of four.

18



#### HARD SEARCH

Certainly one would like to be in a position to "express views about BBC World Service".

But from here it is impossible to tune in to the BBC. Can the BBC readopt a practice of long ago of using a "tracking" or recognition signal which would help the listener to seek out the transmission? Years ago you had a peal of bells which always helped to spot the place on the wireless dial. But nowadays I would defy anyone to tune in to the BBC in less than one hour's exhausting dial search.

J P WARD, ARGENTINA

#### Mike Still, Manager Planning, Broadcasting Coverage Department explains:

In general, BBC transmissions are preceded by four minutes of tuning signal. With World Service in English this is the peal of Bow Bells. However, occasionally a tuning signal is impractical as the transmitter or antenna may be in use for another broadcast or, if the same frequency is already in use, interference may be caused. Or course there are no tuning signals after the time the transmission begins.

#### GIVE PEEL A CHANCE

I'm fed up with people complaining about World Service programmes, especially old

#### DO WORLD SERVICE

people trying to deprive younger listeners of their music programmes.

Listeners like Clifford Innis (Your letters, November 1990) should be less selfish and remember that a varied service is a healthy one. Listen to John Peel and open your minds! RICHARD COOPER, SPAIN

#### PHOTOCALL

Solution As an avid listener of all your pop music programmes I would love to see the faces of the *Multitrack* presenters Tim Smith, Graham Bannerman and Sarah Ward.

MARIE-LOU ALMEIDA, INDIA

Sarah Ward.



Tim Smith. Graham Bannerman.

#### WHAT'S THAT TUNE?

I have been listening to BBC World Service for many years and subscribing to London Calling for less than one. My question has probably been asked many times over the years but I don't recall ever having heard it. What is the title of the theme music heard on the hour? How long has it been the theme? STEVE CROPLEY, USA from an old folk tune and attributed to the English composer Henry Purcell. It was first used in January 1943 for the Chinese Service but was only taken on by the English transmission in the November. Chosen because it was a good tune, we think it remains so.

The familiar composition is Lilliburlero, adapted

#### TIME FOR COCOA

I regularly listen to Financial News, which I appreciate very much. But I regret I am disappointed lately because you talk intensively about stock-markets and, if time runs short, you simply do not mention the important US commodities like coffee, cocoa, wheat and corn. I ask you either to prolong Financial News to 15 minutes or to divide this transmission into two: one about stock-markets and one about commodities.

MANFRED LIEBSCH, GERMANY

#### MISQUOTATION

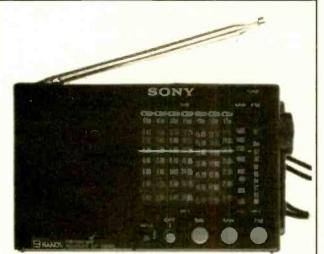
How unfortunate it was that in *In Praise of* God (London Calling, November) there was an all too common mis-quotation of Bunyan whose verse should read: "*They shall grow not old…*" JOSEPH W SHAW, ZAMBIA

Several listeners wrote to point out the incorrect verse, many thanks.

If you would like to express your views about BBC World Service and its programmes, please write to Your Letters, London Calling, PO Box 76, Bush House, Strand, London WC2B 4PH. If you would like your letter read on-air, contact Write-On... at the same address.

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ALL TIMES GMT

#### **BBC World Service reception** quality can be variable, so wherever you live, it is worth trying different frequencies to improve your listening. Lower frequencies generally give best results early in the morning and late at night, higher ones in the middle of the day.

## FREQUENCIES (ENGLISH)

**TRANSMISSIONS:** 

Daily

Alternative

BBC World Service in English broadcasts direct or via relays using the frequencies given below, but some listeners can also hear its programmes rebroadcast by their local radio stations.

Non-daily

BBC World Service In English frequency information, covering the period April to September 1991, is now available listed by transmitter site. If you would like a copy please write to BBC World Service Transmitter Guide, PO Box 76, Bush House, Strand, London WC2B 4PH.

if you would lik	kHz			03	04 04	05 00			09	10			13	14	15	16	17	18	19	20	21 2	2 23	24	MHz	metres
BELGIUM BRITISH ISLES IRISH REPUBLIC LUXEMBOURG NETHERLANDS GERMANY(NW)	15590 12095 9750 9410 6195 6045 3955 1296 648 198																							15,590 12.095 9.750 9.410 6.195 6.045 3.955 231 MW 463 MW 1515 LW	19.24 24.80 30.77 31.88 48.43 49.63 75.85
FRANCE(North)	kHz 15590 7325 6195 5975 3955 648 198		02	03	04	05 00	5 0	7 08		10	) 11	GMT	13	14		16	17		19	20	21 2	2 23	24	MHZ 15.590 7.325 6.195 5.975 3.955 463 MW 1515 LW	metres 19.24 40.96 48.43 50.21 75.85
DENMARK NORWAY(South)	kHz 15590 12095 9410 6195 3955 1296 198	00 01	02	03	04	05 00	6 0		09		0 11 • • •	GMT	13	14	15	16	17	18	19	20	21 2	2 23	24	MHz 15.590 12.095 9.410 6.195 3.955 231 MM 1515 LM	metres 19.24 24.80 31.88 48.43 75.85
FINLAND NORWAY(North) SWEDEN	кн <i>г</i> 15590 15070 12095 9410 7230 6195 <b>395</b> 5	00 01	02	03	04	05 0	6 0	7 08	3 09			GMT	13	14	15	16	17	18	19	20	21 2	2 23	24	мнz 15.590 15.070 12.095 9.410 7.230 6.195 3.955	metres 19.24 19.91 24.80 31.88 41.49 48.43 75.85
USSR (European)	kHz 17640 15590 15070 12095 9410 6195 3955	00 0	02	03	04	05 0	6 0	7 08	3 09		0 1	GMT	13	14	15	16	17 	18	19	20	21 2	2 23	24	Мнг 17.640 15.590 15.070 12.095 9.410 6.195 3.955	metres 17.01 19.24 19.91 24,80 31.88 48.43 75.85
TURKEY	kHz 15070 12095 9660 9410 6180	00 0		03	04	05 0	06 0	)7 0	8 04	9 1	0 1	1 GMT	- 13	14	15	16	17	18		20	21	22 23	24	MHz 15.070 12.095 9.660 9.410 6.180	metres 19.91 24.80 31.06 31.88 48.54
ALBANIA BULGARIA GREECE ROMANIA	kHz 17640 15590 15070 12095 9660 9410 6180			03	04	05 0	6 0		8 09	9 1	0 1	1 GHT		14	15	16	17	18	19	20	21	2 23	24	MHz 17.640 15.590 15.070 12.095 9.660 9.410 6.180	metres 17.01 19.24 19.91 24.80 31.06 31.88 48.54
GREEK ISLANDS (Aegean	kHz 1323	00 0	02	03	04	05 0	06 0		B DY	9 1	0 1	1 GMT	13	14	15	16	17 1	18	19	20	21 2	2 23	24	HHz 227 HW	metres
HUNGARY YUGOSLAVIA	kHz 15590 15070 12095 9410 6195	00 0		03	04	05 0		07 0	8 09	• •	0 1	1 GHT	13	14		16	17	18	19	20	21 2	2 23	24	MHz 15,590 15,070 12,095 9,410 6,195	metres 19,24 19,91 24,80 31,88 48,43
CZECHOSLOVAKIA GERMANY (Northeast) POLAND	kHz 15590 15070 12095 9410 6195 3955	00 0	1 02	03	04	05 0	6 (		8 0%	9 1		1 GMT	13	14	15	16	17	18	19	20	21 2		24	MHz 15.590 15.070 12.095 9.410 6.195 3.955	metres 19.24 19.91 24.80 31.88 48.43 75.85
GREATER BERLIN	kHz 90.2 F		1 02	03	04	05 0	06 (	07 0	8 0	9 1	10 1	1 GMT	13	14	15	16	17	18	19	20	21	22 23	24	MHz 90.200	metres VHF
AUSTRIA ITALY(North) SWITZERLAND GERMANY (South)	kHz 15590 12095 9750 9410 6195 3955	00 0		03	04	05 (			0			1 GM1	13	14		16	17			20	21	22 23	3 24	MHz 15.590 12.095 9.750 9.410 6.195 3.955	metres 19.24 24.80 30.77 31.88 48.43 75.85
ITALY(South) MALTA	kHz 17640 15590 15070 12095 9410 7325 6195	00 0		03	04	05	06	07 0		19	10	GN	13	5 14			17	18   		20	21	22 23	3 24	NHz 17.640 15.590 15.070 12.095 9.410 7.325 6.195	metres 17.01 19.24 19.91 24.80 31.88 40.96 48.43
FRANCE(South)	kHz 17705 12095 9760 9410 7120 6195	00 0	1 02	03	04	05			8 0	9		1 GM1	13	14	15	16 1 1	17	18	19	20	21	22 23	3 24	MH2 17.705 12.095 9.760 9.410 7.120 6.195	metres 16,94 24,80 30,74 31,88 42,13 48,43
GIBRALTAR PORTUGAL SPAIN	kHz 17705 17695 15070 12095 9410 6195		· · · · ·	03		05		07 (	08 0	99	10	1 GM1	13	3 14	15	16	17	18	19 	20	21	22 2	3 24	MHz 17.705 17.695 15.070 12.095 9.410 6.195	metres 16.94 16.95 19.91 24.80 31.88 48.43

## FREQUENCIES (ENGLISH)

AZORES CANARY ISLANDS MADEIRA	кнг 17705 17695 15070 12095 9600 9410 7120		01	62	03	6340 	05			07	08	09	1	0						5 1		17	18 	19	20	21	22	23	24	Мнг 17,705 17,695 15,070 12,095 9,600 9,410 7,120	metres 16.94 16.95 19.91 24.80 31.25 31.88 42.13
ALGERIA MOROCCO TUNISIA	kHz 17705 17695 15590 15070 12095 11850		01	02	03	04	0	5 0	16	07	80	09	1	0				14		5		17		19	20	21	22	23	24	HHz 17.705 17.695 15.590 15.070 12.095 11.850	metres 16.94 16.95 19.24 19.91 24.80 25.32
WEST AFRICA	kHz 17880 17860 17790 15400 15105 15070 11860 9600 9410 6005		01	02	03	04	0	5 0		07	08	09	3	0						5		17	18	19	20	21	22	23	24	HHz 17.880 17.860 17.790 15.400 15.105 15.070 11.860 9.600 9.410 6.005	metres 16.78 16.80 16.86 19.48 19.86 19.91 25.30 31.25 31.88 49.96
CAMEROON C.A.R. CHAD GABON REP.OF CONGO SAOTOME E PRINCIPE ZAIRE(West)	kHz 21660 17880 17860 17790 15400 15105 9610 7105	00	01	02	03	04	05	0	6	07	80			0			13	14	1	5 1		17	18	19	20	21	22	23	24	HH2 21.660 17.880 17.860 17.790 15.400 15.105 9.610 7.105	metres 13.85 16.78 16.80 16.86 19.48 19.86 31.22 42.22
ANGOLA NAMIBIA	kHz 21660 17885 17880 15400 9600 6005	00	01	02	03	04	05	0		07	08		10				13	14				17	18	19	20	21		23	26	MH2 21.660 17.885 17.880 15.400 9.600 6.005	metres 13.85 16.77 16.78 19.48 31.25 49.96
BOTSWANA LESOTHO MALAWI MOZAMBIQUE SOUTH AFRICA SWAZILAND ZAMBIA ZIMBABWE		00	01	02	03	04	05	0		07	08	09	10					14	1	5 <u>1</u>	6	17	18	19	20	21	22	23	24	ниг 21.660 17.885 11.940 6.190 6.005 3.255 251 ММ	metres 13.85 16.77 25.13 48.47 49.96 92.17
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BURUNDI KENYA MADAGASCAR MAURITIUS RWANDA TANZANIA UGANDA ZAIRE (EBST)	kHz 21490 21470 17885 17880 15590 15420 9630 6005	00	01	02	03	04	05	0	6	07		09	10		1 0		13	14	1		6	17	18	19	20	21	22	23	24	MH2 21.490 21.470 17.885 17.880 15.590 15.420 9.630 6.005	metres 13.96 13.97 16.77 16.78 19.24 19.46 \$1.15 49.96
DJIBOUTI ETHIOPIA SOMALIA	kHz 21490 21470 17640 15420 11860 11845 11740 11730 9630 6005 1413	00	01	02	03	04	05	0	6	07	08	09	10		1 G		13		1		6	7	18	19	20	21	22	23	24	ннг 21.490 21.470 17.640 15.420 11.860 11.845 11.740 11.730 9.630 6.005 212 Мы	metres 13.96 13.97 17.01 19.46 25.30 25.33 25.55 25.58 31.15 49.96
EGYPT(South) LIBYA SUDAN	kHz 21470 17640 15070 12095 6195	00	01	02  	03	04	05	06				09	10		1 0		13		15	10		7	18	19	20	21	22	23	24	MHz 21.470 17.640 15.070 12.095 6.195	metres 13.97 17.01 19.91 24.80 48.43
EGYPT(North) ISRAEL JORDAN	кнг 1323 639	00	01	02	03	04	05	00	5	07	08	09	10	1	1 G	HT	13	16 1	19	1	6	7	18	19	20	21	22	23	24	MHz 227 MJ 469 MJ	metres
LEBANON SYRIA	кнг 1323 720	00	01	02	03	04	05 1	00	5	07	08	09	10	1	1 G	HT T	13	14	19	10	0	7	ia I	19 I	20 1	21 1	22	23 1	24	HHz 227 HU 417 HU	metres
MIDDLE EAST	kHz 15590 15575 15070 12095 11760 9670 9410 6050 1413		01	02	03	04		00		07			10		1 6		13	16	15	10	5 1		18	19	20	21	22	23	26	MHz 15.590 15.575 15.070 12.095 11.760 9.670 9.410 6.050 212 MM	metres 19.24 19.26 19.91 24.80 25.51 31.02 31.88 49.59
IRAN	kHz 17640 15590 15575 15070 11955 11760 9670 7160 7135 6050 1413	00		02	03	04	05	06					10		1 G		13	14	15			7	8	19	20	21	22	23	24	HHz 17.640 15.590 15.575 15.070 11.955 11.760 9.670 7.160 7.135 6.050 232 MJ	metres 17.01 19.24 19.26 19.91 25.09 25.51 31.02 41.90 62.05 49.59
AFGHANISTAN PAKISTAN	kHz 15590 15310 15070 11955 9580 7135 5975 5965 1413	00		02	03	06	05	06			08	09	10				13	14	15	16	5 1 • • • •	7	8	19	20	21	22	110	24	HHz 15.590 15.310 15.070 11.955 9.580 7.135 5.975 5.965 212 MW	metres 19.24 19.60 19.91 25.09 31.32 42.05 50.21 50.29

## FREQUENCIES (ENGLISH)

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INDIA (West)	kH2 17790 15310 11955 11750 9740 9580 5975 5965 1413	00	01	02	03	04		05	06		08	0		0			3		5 1	6	7	8	9 2		21	22	23	. 1 . 1	HH2 17.790 15.310 11.955 11.750 9.740 9.580 5.975 5.965 212 MM	metres 16.86 19.60 25.09 25.53 30.80 31.32 50.21 50.29
BANGLADESH BHUTAN INDIA(East) NEPAL SRI LANKA	kHz 17790 15380 15310 11955 11750 9740	00	01	02	03	04			06	07		0	9 1	0		HT		4	15	6		18	19		21	22	23		MHz 17.790 15.380 15.310 11.955 11.750 9.740	metres 16.86 19.51 19.60 25.09 25.53 30.80
BURMA CAMBODIA LAOS THAILAND VIETNAM	kHZ 11955 11750 9740 7145 6195 3915	00	01	02	03	0	4	05	06		08	3 0	9 1 			HT		4	15	16	17	18	9	20  	21	22	23		MHz 11.955 11.750 9.740 7.145 6.195 3.915	metres 25.09 25.53 30.80 41.99 48.43 76.63
BRUNEI BORNEO INDONESIA MALAYSIA	kH2 17830 15360 11955 11750 9740 6195 3915	00	01	02	03	0	4	05	06	07	30		9									18			21	22	23		MHz 17.830 15.360 11.955 11.750 9.740 6.195 3.915	metres 16.83 19.53 25.09 25.53 30.80 48.43 76.63
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AUSTRALIA NEW ZEALAND PACIFIC ISLANDS PAPUA NEW GUINEA	kHz 17830 15360 15140 11955 11750 9740 9640 7150			02	03	0		05	06	07	00	3 0					13		15	16	17	18	19	20	21	22	23		NHz 17.830 15.360 15.140 11.955 11.750 9.740 9.640 7.150	metres 16.83 19.53 19.82 25.09 25.53 30.80 31.12 41.96
PHILIPPINES	kHz 15360 11955 9760 9570	00	01	02	03	0		05	06	07	08	3. 0			11 0		13	14	15		17	18	19	20	21	22	23		нн 15.360 11.955 9.740 9.570	metres 19.53 25.09 30.80 31.35
CHINA MONGOLIA	kHz 21715 17830 15360 15280 11955 11945 11945 11765 11750 9740 7180		01	02		04	4 1		06		80	3 0  	9 1											20	21	22	23		HHZ 21.715 17.830 15.360 15.280 11.955 11.955 11.750 9.740 7.180	metres 13.82 16.83 19.53 19.63 25.09 25.12 25.50 25.53 30.80 41.78
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JAPAN KOREA CANADA-Central, Mountain, Pacific MEXICO USA-Central,	675 kHz 21715 17830 15360 15280 11955 11750 9740 7180 kHz 15260 152260 152260 152260 9740 9950 9590	00 00 00	01	02 02 02 02 02	03 03 03	R6	<b>par</b> :	t of 05	the 06 	07 07 07	08	5 0	9 1				13	6			7	18	19		21	22	23	24 24 24	444 MV NH2 21.715 15.360 15.260 15.260 15.220 NH2 15.220 9.915 9.740 9.915 9.740 9.915 9.590	metres 13.82 16.83 19.53 19.63 25.09 25.53 30.80 41.78 metres 19.66 19.71 30.26 30.80 31.12 31.28
JAPAN KOREA CANADA-Central, Mountain, Pacific MEXICO USA-Central, Mountain, Pacific CANADA-Atlantic, Eastern	675 kHz 21715 17830 15360 11955 11750 9740 9740 9640 15220 9640 9590 5975 kHz 15220 9590 5975 6175 5975		01 01	02 02 02 02 02	03 03 03	R6 - 0	<b>Par</b> (	05	the 06	07 07 07 07		8 0				NT NT NT NT NT NT NT NT NT NT NT NT NT N				6	17	18	19	20	21	22	23	26 24 24 24	444 Hu HH2 21,715 17,830 15,360 15,360 15,360 15,280 9,740 9,740 9,740 15,220 9,915 15,260 9,915 9,740 9,9590 5,975 HH2 15,260 15,220 9,640 15,220 9,640 15,220 9,640 15,220 9,640 15,260 15,275 1,375 1	metres 13.82 16.83 19.53 19.63 25.53 30.80 41.78 metres 19.66 19.71 30.26 30.80 31.12 31.28 50.21 metres 19.66 19.71 30.26 31.53 40.96 48.55 50.21
JAPAN KOREA CANADA-Central, Mountain, Pacific MEXICO USA-Central, Mountain, Pacific CANADA-Atlantic, Eastern USA-Eastern	675 kwz 217152 17530 15360 97400 97500 977000 977000 977000 977000 977000 9770000 9770000 977		01 01	02 02 02 02		R6	<b>Par</b> (			07 07 07 07		8 0				MIT MIT MIT MIT MIT MIT MIT MIT MIT MIT	13 13 13 13 13 13			6 1	7	18	10	20	21 21 21 21 21	22 22 22 22 22 22 22 22 22	23	26 24 24 24	444 Hu Hit2 21, 715 15, 280 11, 955 15, 280 9, 740 9, 750 9, 740 9, 700 9, 7000	metres 13.62 14.63 19.53 25.09 19.66 25.53 30.80 31.12 50.21 19.66 19.71 30.26 50.21 19.66 19.66 19.66 19.60 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.68 19.71 19.72 19.71 19.72 19.66 19.60 19.72 19.66 19.72 19.66 19.72 19.66 19.73 19.66 19.74 19.66 19.75 19.66 19.75 19.66 19.75 19.66 19.75 19.66 19.75 19.66 19.75 19.66 19.75 19.75 19.66 19.75 19.75 19.66 19.75 19.75 19.66 19.75 1
JAPAN KOREA CANADA-Central, Mountain, Pacific MEXICO USA-Central, Mountain, Pacific CANADA-Atlantic, Eastern USA-Eastern CARIBBEAN	675 kHz 217150 15280 11955 7180 11955 7180 11750 7180 15280 7180 7				03 03 03 03 03 03 03 03 03 03 03 03 03 0					07 07 07 07		8 8 8				MIT MIT MIT MIT MIT MIT MIT MIT MIT MIT	13 13 13 13 13 13 13 13 13 13 13	14 14 14 14 14 14 14 14 14 14 14 14 14 1	15 11 15 11 15		3           7	18		20	21 21 21 21 21 21 21 21 21	22 22 22 22 22 22 22 22 22		24 2 2 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	444 Hu HH2 21, 715 15, 280 11, 955 15, 280 11, 955 15, 280 9, 974 9, 974 11, 955 15, 280 9, 974 11, 955 9, 740 9, 974 11, 955 9, 740 9, 974 15, 220 9, 975 15, 220 9, 975 15, 220 9, 975 15, 220 9, 975 5, 97	metres 13.62 19.53 19.53 25.09 19.64 25.53 30.80 19.71 30.26 50.21 30.26 30.21 30.27 30.27 30.27 30.27 30.26 30.21 30.27 30.26 30.21 30.26 30.20 30.21 30.26 30.20 30.21 30.26 30.20 30.21 30.26 30.20 30.21 30.26 30.20
JAPAN KOREA CANADA-Central, Mountain, Pacific MEXICO USA-Central, Mountain, Pacific CANADA-Atlantic, Eastern USA-Eastern CARIBBEAN CENTRAL AMERICA BOLIVIA COLOMBIA	675 kH2 21715 15200 11955 7820 11955 7820 11750 7820 7800 15220 9760 9773 9775 97					0       0 <t< th=""><th></th><th></th><th></th><th>07 07 07 07 07 07</th><th></th><th>8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00</th><th></th><th>0 10 10 10 10</th><th></th><th>MT MT MT MT MT MT MT MT MT MT</th><th>13 13 13 13 13 13 13 13 13</th><th></th><th>15 15 15 15 15 15 15 15 15</th><th></th><th></th><th></th><th></th><th>20</th><th>21 21 21 21 21 21 21 21 21</th><th>22 22 22 22 22 22 22 22 22</th><th></th><th>26 24 24 24 24 24 24 24 24</th><th>444 Hu HH2 21,715 17,830 21,715 15,280 11,955 15,280 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,745 15,220 9,745 9,745 15,220 9,745 9,745 15,220 9,745 15,220 9,755 9,755 15,220 15,220 9,755 15,220 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 9,915 15,220 15,220 9,915 15,220 15,2</th><th>metres 13.92 55.93 19.53 19.53 19.63 19.63 19.63 19.63 19.63 19.71 30.26 50.21 19.71 30.26 50.21 19.71 30.26 50.21 19.71 30.26 40.96 40.96 40.96 40.92 19.71 30.26 50.21 30.26 50.21 30.26 50.26 50.21 30.26 50.26 50.21 30.26 50.26 50.21 30.26 50.26 50.21 30.26 50.26 50.26 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.26 50.26 50.26 50.26 50.27 50.26</th></t<>				07 07 07 07 07 07		8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00		0 10 10 10 10		MT MT MT MT MT MT MT MT MT MT	13 13 13 13 13 13 13 13 13		15 15 15 15 15 15 15 15 15					20	21 21 21 21 21 21 21 21 21	22 22 22 22 22 22 22 22 22		26 24 24 24 24 24 24 24 24	444 Hu HH2 21,715 17,830 21,715 15,280 11,955 15,280 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,740 9,745 15,220 9,745 9,745 15,220 9,745 9,745 15,220 9,745 15,220 9,755 9,755 15,220 15,220 9,755 15,220 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 9,755 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 15,220 9,915 15,220 15,220 9,915 15,220 15,2	metres 13.92 55.93 19.53 19.53 19.63 19.63 19.63 19.63 19.63 19.71 30.26 50.21 19.71 30.26 50.21 19.71 30.26 50.21 19.71 30.26 40.96 40.96 40.96 40.92 19.71 30.26 50.21 30.26 50.21 30.26 50.26 50.21 30.26 50.26 50.21 30.26 50.26 50.21 30.26 50.26 50.21 30.26 50.26 50.26 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.27 50.26 50.26 50.26 50.26 50.26 50.27 50.26

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## $IN \quad \begin{array}{l} 3 \ 7 \\ {}_{\text{Frequencies in kHz (MHz when stated)}} G \ E \ S \end{array}$

#### Frequency/Wavelength nversions

Conversio	115		
Short wave	M	edium	wave
Frequency ra	inge		
kHz	Metre	kHz	Metre
25,670-26,100	) 11		
21,450-21,750	0 13	1413	212
17,700-17,900	0 16	1323	227
15,100-15,450	) 19	1296	231
11,700-11,975	25	930	323
9,500- 9,775	5 31	720	417
7,100- 7,300	) 41	702	427
5,950- 6,200	) 49	648	463
3,900- 4,000	75	639	469
3,200- 3,400	0 90		

#### EUROPEAN BUILGARIAN

JOLGAINAI	
430-0445	6050, 6150, 7210, 9750
645-1715	6050, 9770, 11760
715-1730	(Sat) 6050, 9770, 11760
2015-2115	6050, 7105, 9770

CZECH (Mon-Fri) 1296, 5875, 7260, 9760, 11945 1296, 5875, 7260, 11945, 15325 (Sun) 5875, 9915, 11680 5875, 9915, 11680 1296, 5875, 7210, 0515-0530 0615-0630 1615-1630 1630-1700 1900-2000

1600-1645 9530, 15430 6010, 7230, 9670, 11760 1930-2000

 FRENCH (for Europe)

 0630-0700
 648, 6010, 7285, 9915

 1130-1200
 648, 6125, 7210, 9600, 11780

 1730-1815
 648, 6125, 7155

648. 1296 (to 0500), 3975. 6010, 0445-0545 90.2MHz 648, 1296, 6125, 9750, 90.2MHz 648, 3975, 6125, 90.2 MHz 1630-1700 1830-2000

GREEK 0600-0630 (Mon-Fri) 9670, 11740, 15235 (Mon-Fri) 9670, 11740, 15235 15390, 17875 (Mon-Fri) 6050, 9580, 11760, 17695 6125, 9915, 11835 (Sat & Sun) 6125, 9915, 11925 1245-1300 1530-1600

2000-2015 2015-2045 1835 (Sat & Sun) 6050, 7105, 9635 2230-2300

#### HUNGARIAN 0530-0545

(Mon-Fri) 1296, 5875, 7260, (Mon-Fr) 1296, 5875, 7260, 9760, 11945 1296, 5875, 7260, 11945, 15325 (Sun) 9635, 11680, 13745 (Sun) 9635, 11680, 13745 1296, 5875, 7210, 9750 1296, 5875, 7210, 9735 0630-0645 1000-1130 1315-1400 1800-1900 2200-2245

#### POLISH

24

0500-0515 (Mon-Sat) 1296, 5875, 7260, 9760, 11945 9760, 11945 (Mon-Sat) 1296, 5875, 7260, 11945, 15325 (Sun) 7260, 9825, 11945, 15325 (Sun) 9635, 11680, 13745 (Sun) 9635, 11680, 13745 1296, 9635, 11680, 13745 1296, 5875, 9750, 11680 1296, 5875, 7210, 9715 0600-0615 0700-0730 1130-1230 1400-1500 1500-1530 1700-1800 2030-2200

	riequencies in kin
PORTUGUE 2030-2115 2330-2400	SE (for Europe) 5975, 7150, 9670, 11680 6030, 7175, 9580
ROMANIAN 0400-0430 0545-0600	(Mon-Fri) 6050, 6150, 7210, 9750 (Sat-Sun) 6050, 7260, 9750, 11945
1600-1645 1830-1900 1900-2015	6050, 9770, 11760 (Sun) 6050, 7105, 9770 6050, 7105, 9770
RUSSIAN 0345-0400	1296, 6025, 6050, 7210, 7260, 9580, 9650
0445-0500	9580, 9650, 5875, 6060, 7230, 7260, 9580, 0625, 11045, 15425
1130-1200	9635, 11945, 15435 (Sun) 11835, 15115, 15245,
1300-1330	15435, 17780, 17855, 21735 11845, 15115, 15435, 17695, 1 <b>77</b> 80, 21735
1600-1800	9635, 9670, 9825, 11845, 12040,
1800-1900	15225 3915, 7120, 9635, 9670, 9825,
1900-2130	3915, 7120, 9635, 9670, 9825, 11845, 12040 3915, 5990, 6070, 7120, 9635, 9750 (until 2100) 9825, 12040*
(*until 2000)	
SERBO-CR0 0500-0515 1800-1830 2115-2200 2200-2215	DAT 6050, 7210, 9750 6050, 7105, 9770 6050, 7105, 9770, (Fri) 6050, 7105, 9770
SLOVAK 1530-1600 1600-1615 2000-2030	1296, 5875, 9915, 11680 (Sun) 1296, 5875, 9915, 11680 1296, 5875, 7210, 9650
SLOVENE 1030-1100 1100-1115 1730-1800	(Sun) 9610, 11780, 15235 9610, 11780, 15235 6050, 9770, 11760
TURKISH 0515-0530 0800-1000	(Mon-Sat) 6050, 7210, 9750 (Sun) 1296, 6015, 9635, 9740, 17695
1700-1730 2045-2115 2115-2130	6085, 9915, 11925 6125, 9915, 11835 (Mon-Sat) 6125, 9915, 11835
AFRI	CAN &
	LE EASTERN
ARABIC (M 0330-0600	IDDLE EAST) 639, 702 (to 0445), 720, 11720,
1250-1615 1615-2100	11740, 15235, 15245 639, 702, 720, 15590, 17785 639, 702, 720, 6030, 7140, 11730 (1830-1900 Mon-Fri)
ARABIC (No	orth Africa) 6110, 7320, 9825

6110, 7320, 9825 13660, 15180, 17715 13745 15180, 17715 0445-0600 1250-1615 1615-1800 9915, 11730, 13745, 15180 13745, 15180 1800-2000 2000-2100

FRENCH (N 0515-0530 0600-0630 rth Africa 5980, 7285, 9515 6010, 7285, 9915 1200-1245 1815-1900 15180, 17715 5975, 7150, 9670, 11680 2115-2145

#### FRENCH (Wes 0430-0445 6 0515-0530 6 **Vest and Central Africa)** 6155, 7105, 9610 6155, 7105, 9610 7105, 9610, 15105

0600-0630 15105, 21640, 25870 11820, 15105, 17830 1200-1245 1815-1915

FRENCH (East Africa) 0430-0445 17885 15420 1815-1915 9630 (to 1830), 17830

HAUSA 7105, 9610, 15105 15105, 17810, 21640 11905, 15105, 17830 0545-0600 1345-1415 1915-1945

 
 PORTUGUESE (for Africa)

 0445-0500
 6155, 7105, 9610, 17885

 1800-1815
 9630, 11820, 15105, 17830
 2030-2115 3255, 6190, 9595, 11820, 15160

SOMALI 11860, 15420, 17740, 21490 6005, 15420 1430-1500 1800-1830

SWAHILI 11730, 11845, 15235, 15420, 11860, 15420, 21490 6005, 9630, 15420, 17830 0315-0330 1530-1615 1745-1800

#### ASIAN

0030-0050 1413, 9600, 11850, 15380 1330-1400 1630-1700 9605, 11920, 15245 6065, 6085, 7105, 9605, 11750 RURMESE

9600, 11850, 15380 3915, 6065, 7275 (Sun) 6065, 7275, 11920 0010-0030 1345-1430 1500-1515

NTONESE 11920, 15360 1300-1330 2245-2300 6080, 7180, 11865

HIND 1413,6060,7235,9600,11850, 15380 9600,11850,15380 1413,7235,9605,11920,15245 1413,6065,7105,9605,11750 0050-0135 0245-0300 1400-1445 1715-1730

#### INDONESIAN 1100-1130

7275, 9725, 11955, 17695, 7275, 9725, 11955, 17695 17830, 21590 3915, 6065, 9605, 15125 6080, 7160, 11865 6080, 7180, 11865 1300-1330 2200-2315 2315-2330

**APANESE** 1100-1145 2145-2200 7180, 15280 11945, 15280

MALAY 1330-1345 3915, 6065, 15125

MANDARIN 1000-1100 7180 9725 11955 15280 17830

7180, 11765, 11955, 15125, 15360 7180, 9725 (Mon-Sat), 11765 1200-1300 1430-1500 2215-2245 1194, 6080, 15280, 9580, 11865

NEDALI 1500-1520 (Mon-Sat) 6065, 7275, 11920

PASHTO 0200-0230 6060, 7235, 9600, 11850 1413, 7235, 11720, 15245 1445-1515

#### PASHTO-PERSIAN (Fris) 11860, 15245, 17855 1000-1100

PERSIAN 0230-0300 720, 1413, 6060, 7235, 9590, 11740 1600-1645

1413, 6040, 7160, 11720 720, 1413, 5975, 7160, 11720 1830-1900

SINHALA 1530-1600 (Sun) 6065, 7105, 11920

1530-1600 (Mon-Sat) 6065, 7105, 11920

1215-1245 6065, 9725, 11920, 15590, 21590 1615-1630 6065, 6085, 7105, 9605, 11710, 11750 2345-2400 6080, 7180, 11865

URDU 0135-0200 1515-1600 1730-1745 1413, 6060, 7235, 9600, 11850 1413, 7235, 9605, 11720, 15245 1413, 6065, 7105, 9605, 11750

9725, 11955, 15360 3915, 6065, 7275 6080, 7180, 11865 1130-1200 1430-1500 2300-2315

#### LATIN AMERICAN

ORTUGUESE 215-0300 6110, 9515, 9825, 15390 230-2300 6110, 9825, 11765, 11820, 0215-0300 2230-2300 15390

SPANISH 0000-0200 5875 6110, 9825, 11820, 15390 5875, 6110, 9515, 9825, 11820, 0300-0430 15390 9690, 15190, 21490 9690, 15315, 17850 1100-1130 1300-1330

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FUROPE 6050, 7210, 9750 90.2 MHz 1296, 5875, 7260, 11945, 15325 1296, 3975, 6010, 7285, 9825 (Sun) 1296, 6125 1296, 6125, 9600, 9635, 11680, 11710, 11780, 11845, 15115, 15435, 17695, 17780, 21735 9635, 15225 9648, 1296, 6125, 9750, 90.2 MHz 6125, 7155 0530-0545 0545-0600 0645-0700 0730-0745 1215-1230 1230-1300 1545-1600 1615-1630 1700-1730 90.2 MHz 648 6125, 7125, 9635 1715-1730 1815-1830 2130-2200 2245-2300 1296 ISRAEL, JORDAN, LEBANON, SYRIA 2000-2030 720 AFRICA 11730, 11845, 15235 11860, 15105 11860, 15420, 21490 0300-0315 15-0730 1400-1430 1130-1145 15190, 21490 6110, 9825, 11765, 11820, 2300-2330 15390

#### ASIA

0030-0045 6195, 7145, 11945, 15280, 17830 7180, 9725, 11955, 15280, (Sat-Thurs) 7180, 15280 6065, 9725, 11920 6065, 7105, 9605, 11750 0930-1000 1145-1200 1200-1215 1700-1715 11945, 15280 11945, 15280 11945, 17830 2130-2145 2200-2215 2245-2300 2330-2345 6080, 7180, 11865

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